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FURTHER STUDIES OF METHODS FOR REDUCING COMMUNITY NOISE AROUND AIRPORTS

bv

Richard H. Petersen, Donna J. Barry, and David M. Kline

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FURTHER STUDIES OF METHODS FOR REDUCING COMMUNITY NOISE AROUND AIRPORTS

by Richard H. Petersen, Donna J. Barry, and David M. Kline Nielsen Engineering & Research, Inc.

SUMMARY

NEAR TR 73 (August, 1974) reported on several studies of various methods for reducing aircraft noise in the vicinity of airports. This report gives the results of further studies of noise reduction methods. As was the case in NEAR TR 73, a simplified method of analysis was used in which all flights at a "simulated" airport were assumed to operate from one runway in a single direction. For this simulated airport, contours of Noise Exposure Forecast were obtained and evaluated.

Four studies are reported here. All four use the "23-Airport Average" flight schedule which was developed in the earlier study. The use of this flight schedule results in a "simulated" airport which is representative of the 23 major U. S. airports.

The first study examines the effect of banning nighttime operations by four-engine, narrow-body aircraft in combination with other noise reduction options which were studied previously. The second study examines the reductions in noise which would occur if all new, two- and three-engine, narrow-body aircraft were equipped with a refanned engine which is significantly quieter than the current engine. The third study is a detailed comparison of the effects of engine cutback on takeoff versus the effects of retrofitting quiet nacelles for narrow-body aircraft. The fourth study looks at a different method of presenting the effects of various noise reduction options. The previous studies used contour plots of NEF 25, 30, and 40. In the fourth study, the results of various noise reduction options are shown by plotting contours of equal change in NEF.

INTRODUCTION

Community annoyance due to aircraft noise in the vicinity of airports is one of the most serious problems facing aviation today. The construction of new airports and expansion of existing airports has been virtually

halted by public pressure based primarily on the noise problem. Curfews and other operating restrictions have been implemented at a number of airports, and such restrictions will proliferate unless real progress is made in reducing airport noise.

The new, wide-body aircraft powered by high-bypass-ratio engines are considerably quieter than existing narrow-body aircraft, and each large wide-body aircraft can replace several smaller narrow-body aircraft. As a result, the introduction of wide-body aircraft in the next decade should result in a gradual reduction of airport noise, despite the fact that airline passenger-miles will continue to grow. This is an important reversal of the traditional trend, where the overwhelming increase in the number of flights caused a rapid escalation of airport noise. Unfortunately, projections of the future airline fleet indicate that over half of the present noisier narrow-body aircraft are expected to remain in service ten years from now. Significant airport noise reductions, in the near future, can only be obtained by reducing the noise generated by these aircraft.

The National Aeronautics and Space Administration (NASA) and the Department of Transportation (DOT) have supported work on the development of retrofit kits to reduce the noise from narrow-body aircraft. Two options have been developed: Sound Absorption Material (SAM) and Refan (RFN). SAM retrofit involves nacelle redesign and extensive use of sound absorption material. RFN retrofit involves engine modification with a larger diameter, single-stage fan (to increase bypass ratio) and nacelle redesign with sound absorption material.

Operational procedures may also be used to reduce community noise due to aircraft. Steeper than normal approach paths and two-segment approaches using a steep path followed by a normal path have been studied. Variations in takeoff procedure and curved flight paths may also be used to reduce airport noise or redistribute the noise to areas of low population density.

NEAR TR 73 presented the results of several specific noise reduction studies, and this report presents several more. These studies were performed to assist NASA in evaluating the effects of the various noise reduction methods.

METHOD OF ANALYSIS

To determine the effects of the various noise reduction methods, contours of Noise Exposure Forecast (NEF) were developed for specified airports and years. The basic method of analysis is described in reference 1. The input is a schedule of daily operations with associated flight paths at an airport. This input can represent a real or a "simulated" airport. Typically, a "simulated" airport has a schedule of operations which is obtained by averaging the operations of a given set of airports. It is presumed that the effects of noise reduction methods on such a "simulated" airport closely approximate the average of the total effect on the airports in the given set.

For this study, all operations were assumed to take place from a single runway with landings and takeoffs in the same direction of flight. In the real case, of course, operations occur in both directions and from different runways. Placing all operations on one runway and in one direction can significantly reduce the area of the NEF contours. However, it is presumed that the relative (percentage) effects of various noise reduction methods based on single runway operations closely approximate the relative effects at the real airports.

For the studies reported here, all aircraft were assumed to take off at maximum gross weight. In practice, some aircraft take off at lower weights. At these lower weights, they generate less perceived noise because their takeoff flight profile is higher. For this reason the results reported here may be somewhat conservative.

The noise contours were obtained with an airport noise analysis computer program developed by NASA/Ames Research Center based on a program originally developed under contract by Serendipity, Inc. for the DOT. This program provides rapid computation of noise contours. A graphics terminal was utilized to facilitate data input and output and provide computer-generated contour plots.

Noise data for each type of aircraft considered are incorporated in the program. The noise data used in the current studies were supplied by the NASA Refan Program Office and represent the best available data as of June, 1974. Table I gives the noise levels for the narrow-body aircraft at the FAR 36 measuring points. Note that the SAM modification gives

modest reductions on JT8D aircraft and significant reductions on JT3D aircraft. The RFN modification is not currently proposed for the JT3D; it gives large noise reductions on JT8D aircraft.

The basic outputs of the analyses are contour plots of Noise Exposure Forecast (NEF) around the airport. A typical example is shown in figure 1. The direction of flight for both takeoffs and landings is toward the right of the figure. Contours of NEF 25, NEF 30, and NEF 40 are presented. The contour portrays the boundary of the area enclosing noise levels equal to or greater than the specified contour level. The total areas within the contours are tabulated for each case. The lateral dimensions of the contours are expanded relative to the longitudinal dimensions; the true contours are quite narrow.

To assist the user of this report in further analyzing the data, computer printouts of diagnostic information are presented in the appendix. The diagnostics show the influence of each type of aircraft on the NEF at a given point on the ground. For each case analyzed in the current studies, diagnostics were obtained at the NEF 30 closure points (i.e., the points on the longitudinal axis where a NEF of 30 was obtained).

		BASE	SAM	RFN	FAR 36
	Takeoff	102	100	88	100
B727 (JT8D)	Approach	109.5	103	96	104.5
(0100)	Sideline	102	102	92	104.5
	Takeoff	96.5	91.5	84	96.5
B737 (JT8D)	Approach	111	105	99	103.5
(0100)	Sideline	104	103	92	103.5
	Takeoff	97	96	83.5	96
DC9 (JT8D)	Approach	108	102.5	93.5	103.5
(0100)	Sideline	102	102	93	103.5
	Takeoff	114	103		104
B707 (JT3D)	Approach	119.5	105		106.5
(013D)	Sideline	107.5	102.5		106.5
	Takeoff	117	109		103.5
DC8	Approach	117	105		106
(JT3D)	Sideline	103	99		105.5

Table I.- Aircraft noise levels, EPNdB.

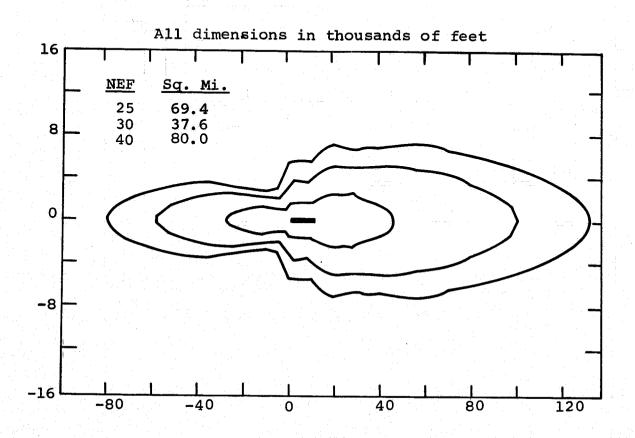


Figure 1.- Typical plot of Noise Exposure Forecast contours.

23-AIRPORT STUDY

NEAR TR 73 contains a detail report of a "23-Airport Study." This study serves as a base for the four studies to be presented herein. For convenience, the "23-Airport Study" will be summarized here, and its results are shown for easy comparison with the current studies.

Operational schedules for 23 major U. S. airports in 1972, 1981, and 1987 were supplied by the NASA Refan Program Office. These schedules are also shown in reference 2, "Airport Noise Reduction Forecast." To obtain an approximate indication of the effects of various noise reduction options at these major airports, a "23-Airport Average" airport was created by averaging the flights per day by each aircraft type at the 23 airports. The effects of the noise reduction options were evaluated by analyzing the noise contours for a single runway using the 23-Airport Average schedule. The 23 airports considered are listed in Table II, and the average schedule is given in Table III.

The baseline contours for the 23-Airport Average in 1972, 1981, and 1987 are shown in figure 2. The 1972 contours represent the current noise situation. With time, the number of operations increases, but the percentage of quieter, wide-body aircraft also increases. As the result, the contour areas are smaller in 1981 than in 1972, and there is virtually no change in area between 1981 and 1987.

The effects of various noise reduction methods in 1981 are shown in figure 3. The contours in the left column are all for standard takeoff procedures. At the top, the baseline case of figure 2 is repeated. The use of two-segment approach procedures gives a significant reduction in contour areas under the approach path. Applying the SAM modification to the JT3D-powered aircraft (B707 and DC8) results in a further general reduction of the contour area.

The contours in the right column of figure 3 include takeoff with throttle cutback at 3.5 nautical miles. This procedure results in longer, but narrower, takeoff contours than those for a standard takeoff. The general effects of instituting two-segment approaches and using SAM on the JT3D aircraft are the same as for the standard takeoff case.

The remaining option is to use either the SAM modification or the RFN modification on the JT8D-powered aircraft (B727, B737, and DC9). The effects of this option are shown in figure 4. Again the left column is for standard takeoff procedures. SAM JT8D gives a small reduction in contour areas, mostly on the approach side. RFN JT8D gives a larger general reduction in the contour areas. If cutback takeoff procedures are used, the results of JT8D modifications are shown in the right column of figure 4. The effects are similar to the standard takeoff cases.

The effects of the noise reduction options in 1987 are presented in figures 5 and 6. The results are very similar to those in 1981.

The noise contour areas for the 23-Airport Average are summarized in Table IV. The values in Table IV are slightly different from those given in NEAR TR 73 (Table VI). The changes are due to small errors in the input used previously. Table IV should be considered more accurate than NEAR TR 73 and is consistent with the further studies reported here. None of the changes amount to more than a few percent, and the changes in contour plots generally were insignificant.

Atlanta

Boston

Buffalo

Chicago/Midway

Chicago/O'Hare

Cleveland

Denver

Los Angeles

Miami

Minneapolis/St. Paul

New Orleans

Newark

New York/Kennedy

New York/La Guardia

Philadelphia

Phoenix

Portland, Oregon

San Diego

San Francisco

St. Louis

Seattle/Tacoma

Washington/Dulles

Washington/National

Table II. - Twenty-three major U. S. airports.

YEAR	AIRCRAFT	DAY	NIGHT	EQUIVALENT*
1972	в707	31.5	7.2	152.1
	DC8	20.2	7.1	138.5
	В727	80.5	12.2	239.0
	B737	19.0	1.0	35.0
	DC9	51.0	7.3	172.8
	в747	7.9	1.2	28.2
	DC10/L1011	4.5	1.0	20.5
1981	SST	0.6	0.0	0.6
	B707	13.4	2.9	62. 0
	DC8	8.4	2.4	49.1
	B727	73.1	10.3	245.5
	B727QN	8.8	1.0	25.5
	В737	22.2	1.0	39.9
	DC9	42.6	5.4	132.4
	B 7 47	23.2	4.9	104.5
	DC10/L1011	62.1	23.8	292.5
	WIDE TWIN	27.1	3.4	83.9
1987	SST	1.2	0.0	1.2
	в707	12.0	2.5	54.0
	DC8	7.6	2.8	54.5
	B727	71.2	9.2	224.8
	B727QN	11.3	1.2	31.2
	B737	21.6	1.0	38.6
	DC9	43.7	5.1	129.1
	в747	31.5	6.7	144.0
	DC10/L1011	82.5	18.6	390.2
	WIDE TWIN	49.2	5.4	139.0

^{*}EQUIVALENT = DAY + 16.67 NIGHT

Table III.- Landings (or takeoffs) per day, 23-Airport Average.

YEAR		1972			1981			1987	
NEF	25	30	40	25	30	40	25	30	40
BASELINE	69.4	37.6	8.0	58.0	30.5	5.9	58.8	30.9	6.0
TWO-SEGMENT				50.1	27.1	5.5	50.8	27.4	5.6
TWO-SEGMENT + SAM JT3D				43.6	22.9	4.4	44.5	23.3	4.5
TWO-SEGMENT + SAM JT3D + SAM JT8D				40.0	21.1	4.0	41.2	21.6	4.2
TWO-SEGMENT + SAM JT3D + RFN JT8D				26.6	12.0	2.9	28.9	13.6	3.2

(a) Standard takeoff.

YEAR		1972			1981			1987		
NEF	25	30	40	25	30	40	25	30	40	
BASELINE				61.6	30.6	5.9	62.5	31.1	6.0	
TWO-SEGMENT				53.7	27.2	5.4	54.5	27.5	5.6	
TWO-SEGMENT + SAM JT3D				40.8	18.9	3.5	42.0	19.7	3.7	
TWO-SEGMENT + SAM JT3D + SAM JT8D				35.8	16.3	3.2	37.1	17.4	3.5	
TWO-SEGMENT + SAM JT3D + RFN JT8D				28.3	12.1	2.4	30.5	13.5	2.8	

(b) Takeoff with cutback.

Table IV.- Summary of 23-Airport noise contour areas, square miles.

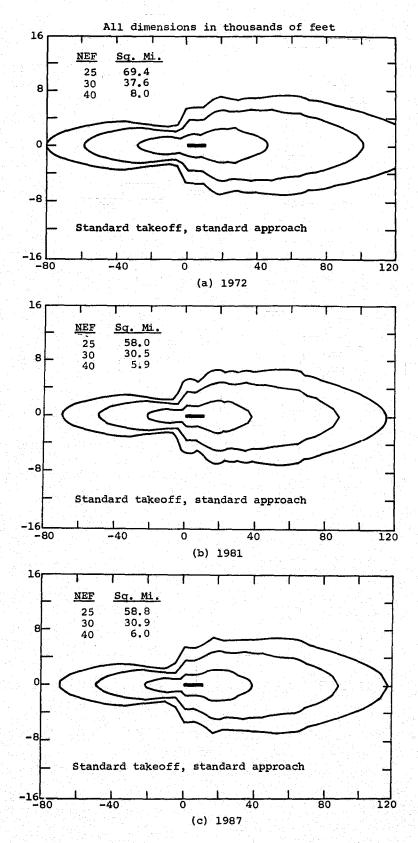


Figure 2.- Noise contours for 23-airport average in 1972, 1981, 1987.

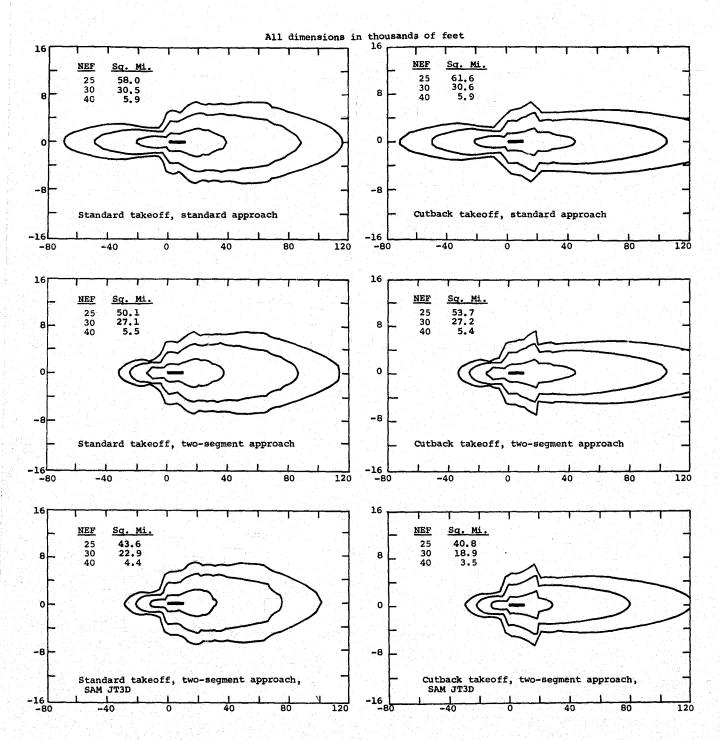


Figure 3.- Effect of cutback takeoff, two-segment approach, and SAM JT3D on 23-airport average in 1981.

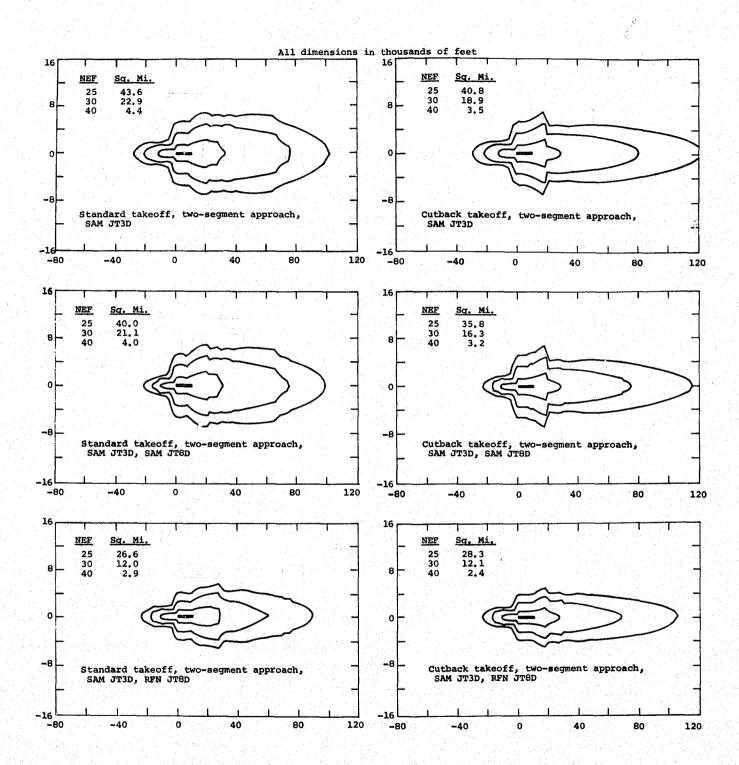


Figure 4.- Effect of SAM JT8D or RFN JT8D on 23-airport average in 1981.

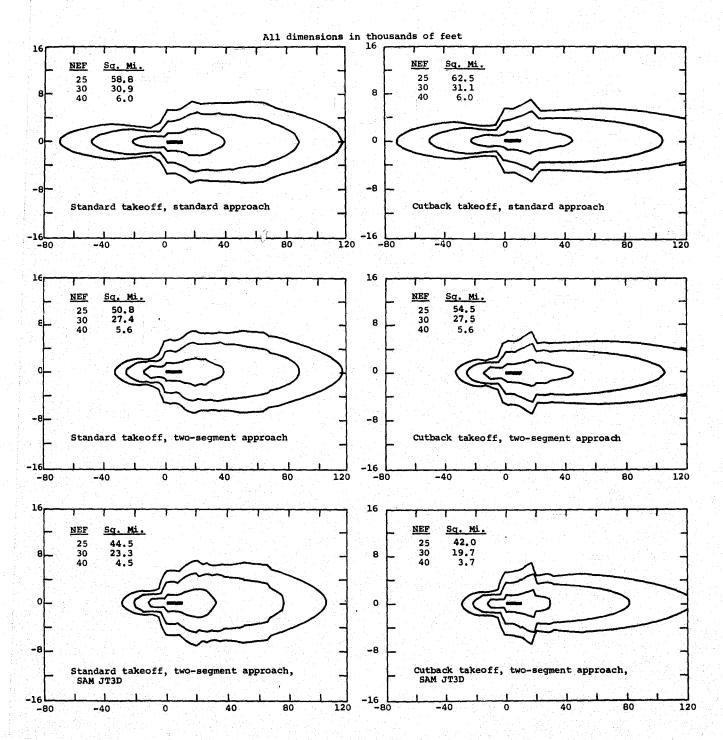


Figure 5.- Effect of cutback takeoff, two-segment approach, and SAM JT3D on 23-airport average in 1987.

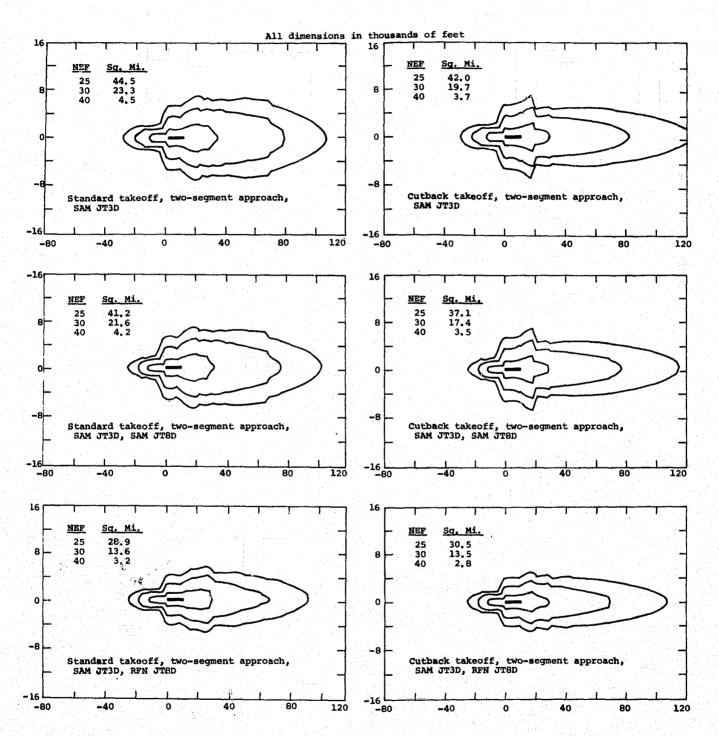


Figure 6.- Effect of SAM JT8D or RFN JT8D on 23-airport average in 1987.

NIGHT CURFEW OF JT3D AIRCRAFT

In examining the data of the original "23-Airport Study," it was clear that the baseline cases were dominated by the noise of the JT3D-powered aircraft. These aircraft were dominant in spite of the fact that they comprised only 8% of the 1981 operations and 7% of the 1987 operations. In view of this dominance, simple methods to reduce the noise due to JT3D-powered aircraft were sought.

Probably the simplest method of reducing JT3D noise is to ban night-time operations of these aircraft. In the NEF weighting procedure, one nighttime operation (between 10:00 p.m. and 7:00 a.m.) is equivalent to 16.67 daytime operations. Therefore, banning nighttime operations and shifting those flights to day operations results in a significant reduction in perceived noise. The schedules of operations for the curfew JT3D case are shown in Table V which is analogous to Table III. Note that for this average airport case only 5.3 flights per day are changed from night to day in both 1981 and 1987.

Figure 7 shows the baseline contours for the curfew JT3D case in 1972, 1981, and 1987. This figure can be compared with figure 2 which shows the non-curfew results. Use of the curfew with no other noise reduction methods reduces the NEF 30 contour by 34% in 1972 and 19% in 1981 and 1987. It is interesting to note that with the curfew applied the noise exposure was nearly constant for the three dates studied. In effect, the noise reduction between 1972 and 1981 shown in figure 2 was primarily due to the reduction in night flights by JT3D-powered aircraft. Curfewing the JT3D aircraft is approximately as effective in reducing noise exposure as going to two-segment approaches by all aircraft. The curfew results in a general reduction of contour areas; whereas the two-segment approach results in a large reduction under the landing path.

The curfew was also applied in combination with other noise reduction options. The results for 1981 are shown in figures 8 and 9 which are analogous to figures 3 and 4. It is interesting to note that use of two-segment approaches in combination with the JT3D curfew gives almost exactly the same noise reduction as two-segment approaches in conjunction with SAM JT3D; that is, curfewing JT3D operations appears to have about the same effect as the SAM retrofit on JT3D aircraft. Use of the JT3D curfew lowers the NEF 30 contour area by 7% to 29% relative to the corresponding

non-curfew case. The reductions due to curfew are largest for the baseline, two-segment approach case and the two-segment approach plus SAM JT3D plus RFN JT8D case because these are the cases in which the JT3D aircraft strongly dominate the noise.

The effects of a JT3D curfew in 1987 are presented in figures 10 and 11 which are analogous to figures 5 and 6. The results are virtually identical to those for 1981.

The noise contour areas for all of the curfew JT3D cases are summarized in Table VI. These results can be compared with the non-curfew results given in Table IV. Use of the curfew with no other noise reduction options results in a 19% reduction of the NEF 30 contour in both 1981 and 1987. If the curfew and two-segment approaches are combined, the reductions from the non-curfew baselines are 26% in both cases, virtually the same as the reduction obtained by using two-segment approaches and SAM JT3D. Using the JT3D curfew in combination with two-segment approaches, SAM JT3D, and RFN JT8D, the NEF contour is reduced 70% in 1981 and 64% in 1987 (a reduction of 75% and 72% from the 1972 value). If SAM JT8D is used rather than RFN JT8D, the reductions are 36% in both 1981 and 1987 (48% and 47% relative to the 1972 value).

Curfewing of nighttime operations by JT3D-powered aircraft gives significant noise reductions in all cases and appears to be a promising option for consideration. Further, the curfew produces about the same noise reduction as applying the SAM retrofit to JT3D-powered aircraft. Such a curfew would obviously have some economic impact on the airlines. This impact is unknown, but should be estimated for comparison with the economic costs of other noise reduction modifications.

YEAR	AIRCRAFT	DAY	NIGHT	EQUIVALENT*
1972	в707	38.7	0.0	38.7
	DC8	27.3	0.0	27.3
	в727	80.5	12.2	239. 0
	B737	19.0	1.0	35. 0
	DC9	51.0	7.3	172.8
	В747	7.9	1.2	28.2
	DC10/L1011	4.5	1.0	20.5
1981	SST	0.6	0.0	0.6
	в707	16.3	0.0	16.3
	DC8	10.9	0.0	10.9
	B727	73.1	10.3	245.5
	B727QN	8.8	1.0	25.5
	в737	22.2	1.0	3 9.9
	DC9	42.6	5.4	132.4
	В747	23.2	4.9	104.5
	DC10/L1011	62.1	13.8	292.5
	WIDE TWIN	27.1	3.4	83.9
1987	SST	1.2	0.0	1.2
	в707	15.8	0.0	15.8
	DC8	10.3	0.0	10.3
	в727	71.2	9.2	224.8
	B727QN	11.3	1.2	31.2
	в737	21.6	1.0	38.6
	DC9	43.7	5.1	129.1
	в747	31.5	6.7	144.0
	DC10/L1011	82.5	18.6	390.2
	WIDE TWIN	49.2	5.4	139.0

^{*}EQUIVALENT = DAY + 16.67 NIGHT

Table V.- Landings (or takeoffs) per day, 23-Airport Average, curfew on JT3D aircraft.

YEAR		1972			1981			1987		
NEF	25	30	40	25	30	40	25	30	40	
BASELINE	48.2	25.0	4.5	48.8	24.7	4.4	49.2	25.1	4.5	
TWO-SEGMENT				42.7	22.5	4.2	43.2	22.7	4.3	
TWO-SEGMENT + SAM JT3D				40.9	21.3	3.9	41.6	21.6	4.0	
TWO-SEGMENT + SAM JT3D + SAM JT8D				37.0	19.4	3.6	38.1	19.9	3.7	
TWO-SEGMENT + SAM JT3D + RFN JT8D				21.5	9.3	2.2	24.1	10.6	2.5	

(a) Standard takeoff.

YEAR		1972		1981			1987		
NEF	25	30	40	25	30	40	25	30	40
BASELINE				46.7	21.8	3.9	47.6	22.3	4.0
TWO-SEGMENT				41.0	19.4	3.7	41.7	20.0	3.8
TWO-SEGMENT + SAM JT3D				36.6	16.6	3.2	38.1	17.5	3.5
TWO-SEGMENT + SAM JT3D + SAM JT8D				31.6	14.0	2.9	33.3	15.1	3.2
TWO-SEGMENT + SAM JT3D + RFN JT8D				23.1	9.3	2.0	25.7	10.9	2.4

(b) Takeoff with cutback.

Table VI.- Summary of 23-Airport noise contour areas with curfew on JT3D aircraft, square miles.

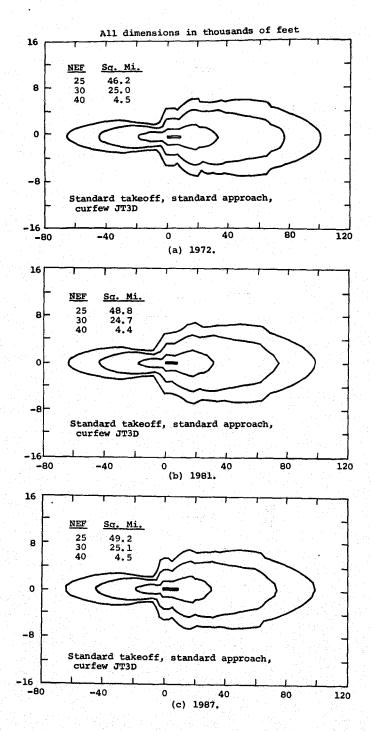


Figure 7.- Noise contours for 23-airport average in 1972, 1981, 1987 with curfew on JT3D aircraft.

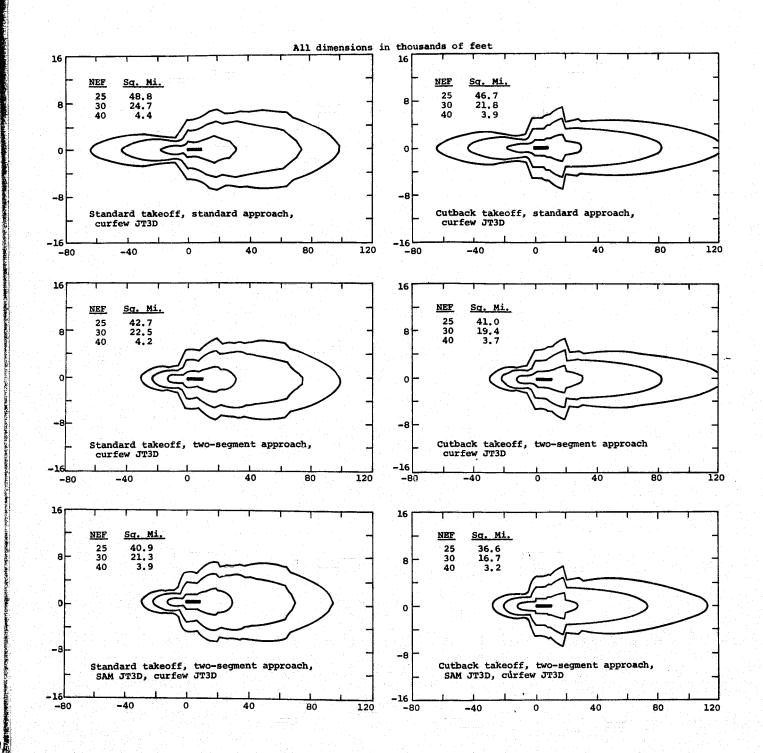


Figure 8.- Effect of cutback takeoff, two-segment approach, and SAM JT3D on 23-airport average in 1981 with curfew on JT3D aircraft.

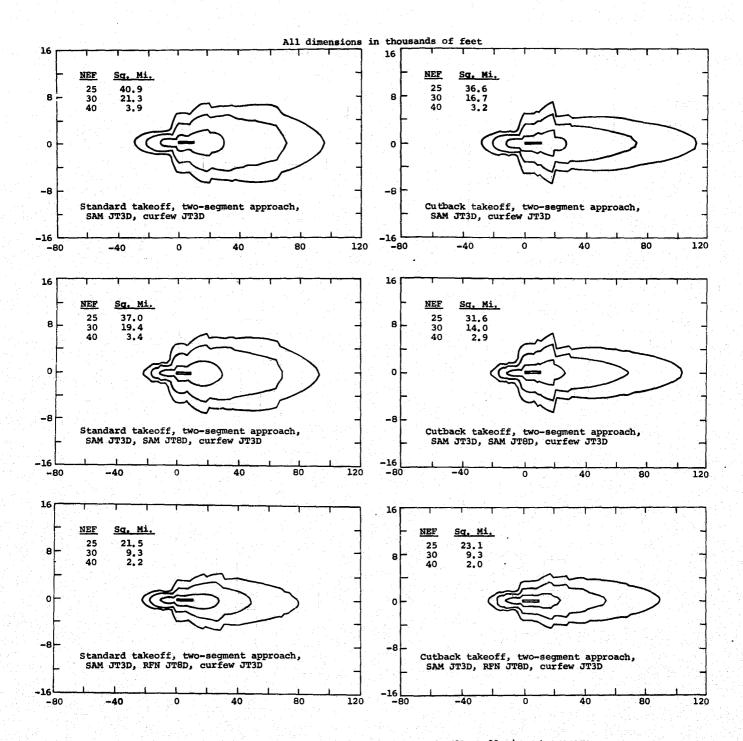


Figure 9.- Effect of SAM JT8D or RFN JT8D on 23-airport average in 1981 with curfew on JT3D aircraft.

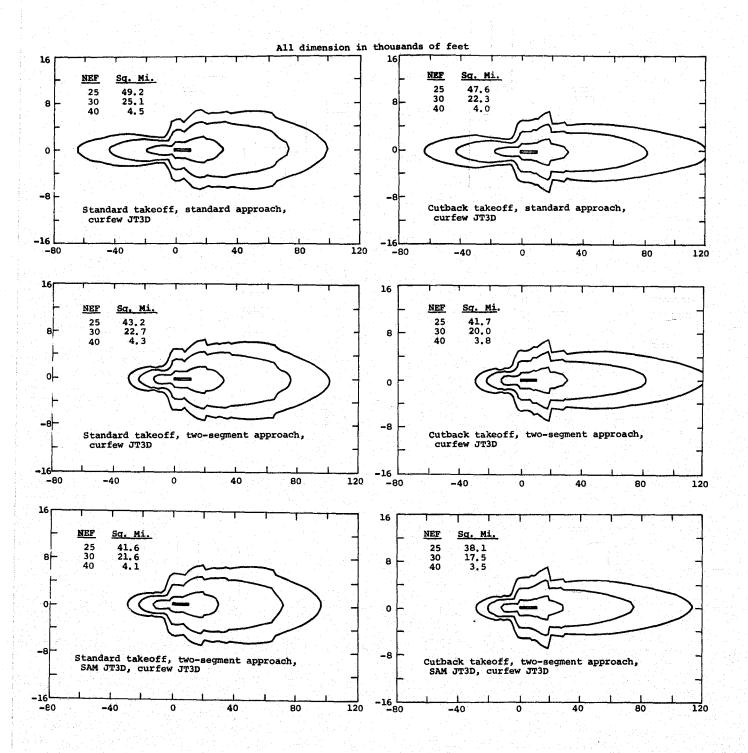


Figure 10.- Effect of cutback takeoff, two-segment approach, and SAM JT3D on 23-airport average in 1987 with curfew on JT3D aircraft.

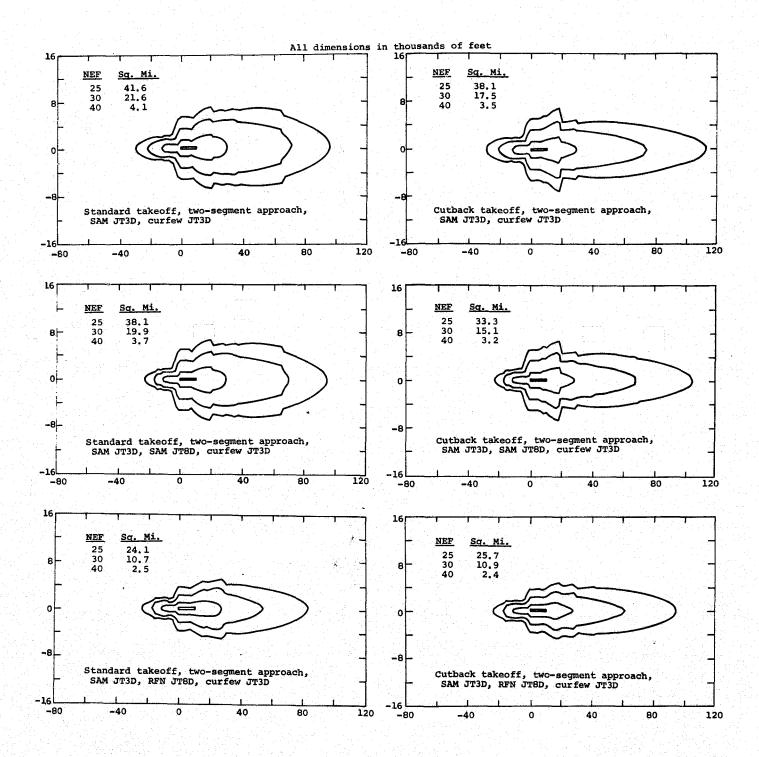


Figure 11.- Effect of SAM JT8D or RFN JT8D on 23-airport average in 1987 with curfew on JT3D aircraft.

REFANNED ENGINE FOR NEW JT8D AIRCRAFT

As shown by the results of the "23-Airport Study," the RFN retrofit on JT8D aircraft gives a large reduction in noise. Since the JT8D-powered aircraft are still in production, it seemed appropriate to examine the effects of equipping new production aircraft with engines which incorporated the RFN modification. These engines would be somewhat more expensive than current JT8D engines, but program costs would be considerably less than for retrofitting all of the JT8D aircraft.

Estimates of the total airline fleet in 1981 and 1987 are shown in reference 2. From these estimates it was determined that approximately one third of the JT8D aircraft flying in 1981 and in 1987 would be aircraft produced after 1974. The one-third value was used to adjust the 23-Airport Average schedules, although refanned engines could not be available for at least several years. The schedules of operations for the RFN new JT8D case are shown in Table VII, which is analogous to Table III. The results of refanning new JT8D aircraft in combination with other noise reduction options are shown in figures 12 and 13 for 1981. These figures are analogous to figures 3 and 4. Not unexpectedly, the effects of refanning one third of the JT8D aircraft are rather small. The reduction in noise contour areas amounts to 2% to 6% for the cases examined. Refanning all the JT8D aircraft is much more effective than refanning only the new ones.

RFN new JT8D results for 1987 are shown in figures 14 and 15 which are analogous to figures 5 and 6. The results are virtually identical to those for 1981.

The noise contour areas for the RFN new JT8D cases are summarized in Table VIII. These results can be compared with the baseline results given in Table IV. The noise reductions are small, while the number of new JT8D aircraft is probably optimistic. Refanning the new JT8D aircraft does not appear to be an attractive option despite its lower costs relative to refanning all JT8D aircraft.

YEAR	AIRCRAFT	DAY	NIGHT	EQUIVALENT*
1972	в707	31.5	7.2	152.1
	DC8	20.2	7.1	138.5
	B727	80.5	12.2	239.0
	В737	19.0	1.0	35.0
	DC9	51.0	7.3	172.8
	B747	7.9	1.2	28.2
	DC10/L1011	4.5	1.0	20.5
1981	SST	0.6	0.0	0.6
	В707	13.4	2.9	62.0
	DC8	8.4	2.4	49.1
	B727	64.5	9.3	220.3
	B727RFN	17.4	2.0	50.7
	в737	20.7	0.9	36.0
	B737RFN	1.4	0.1	3.9
	DC9	39.7	5.1	124.7
	DC9RFN	2.9	0.3	7.7
	В747	23.2	4.9	104.5
	DC10/L1011	62.1	13.8	292.5
	WIDE TWIN	27.1	3.4	83.9
1987	SST	1.2	0.0	1.2
	в707	12.0	2.5	54.0
	DC8	7.6	2.8	54.5
	B727	63.5	8.4	203.7
	B727RFN	19.0	2.0	52.3
	в737	19.2	0.8	33.0
	B737RFN	2.4	0.2	5.6
	DC9	38.9	4.7	118.0
	DC9RFN	4.8	0.4	11.1
	в747	31.5	6.7	144.0
	DC10/L1011	82.5	18.6	390.2
	WIDE TWIN	49.2	5.4	139.0

^{*}EQUIVALENT = DAY + 16.67 NIGHT

Table VII. - Landings (or takeoffs) per day, 23-Airport Average, RFN on new JT8D aircraft.

YEAR	1981			1987		
NEF	25	30	40	25	30	40
BASELINE	56.2	29.4	5.7	56.9	29.7	5.8
TWO-SEGMENT	48.5	26.0	5.3	49.0	26.3	5.3
TWO-SEGMENT + SAM JT3D	41.6	21.7	4.2	42.3	22.0	4.3
TWO-SEGMENT + SAM JT3D + SAM JT8D	38.1	19.9	3.9	39.1	20.5	4.0

(a) Standard takeoff.

YEAR	1981			1987		
NEF	25	30	40	25	30	40
BASELINE	60.1	29.9	5.7	61.1	30.5	5.8
TWO-SEGMENT	52.4	26.4	5.3	53.3	26.8	5.4
TWO-SEGMENT + SAM JT3D	39.0	17.9	3.4	40.4	18.7	3.6
TWO-SEGMENT + SAM JT3D + SAM JT8D	34.7	15.6	3.1	36.3	16.7	3.3

(b) Takeoff with cutback.

Table VIII.- Summary of 23-Airport noise contour areas with RFN on new JT8D aircraft, square miles.

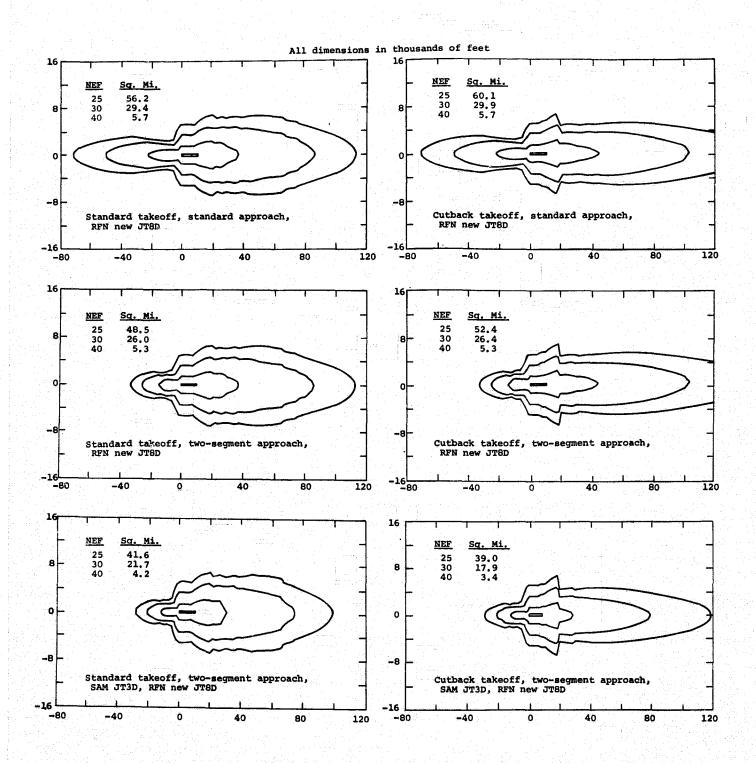


Figure 12.- Effect of cutback takeoff, two-segment approach, and SAM JT3D on 23-airport average in 1981 with refan on new JT8D aircraft.

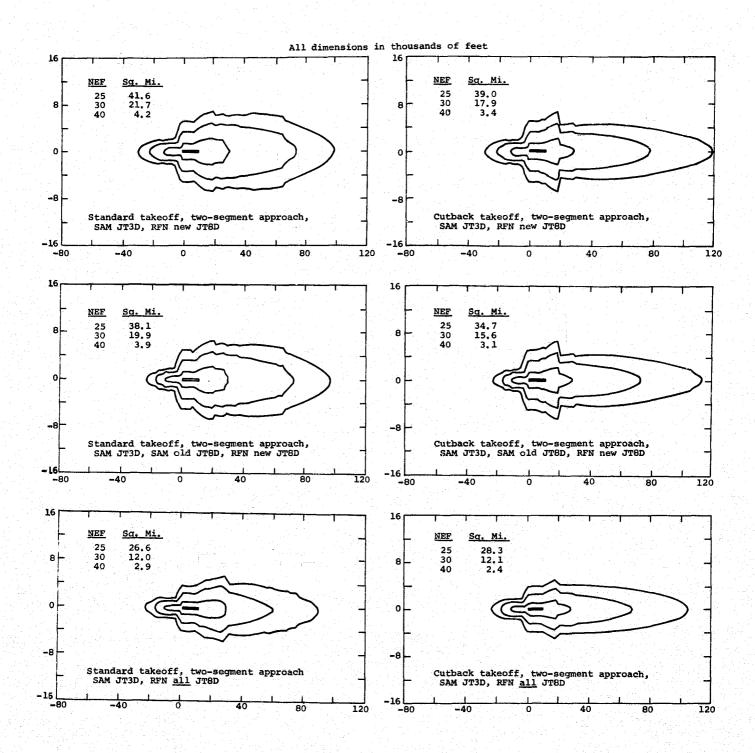


Figure 13.- Effect of SAM JT8D or RFN JT8D on 23-airport average in 1981 with refan on new JT8D aircraft.

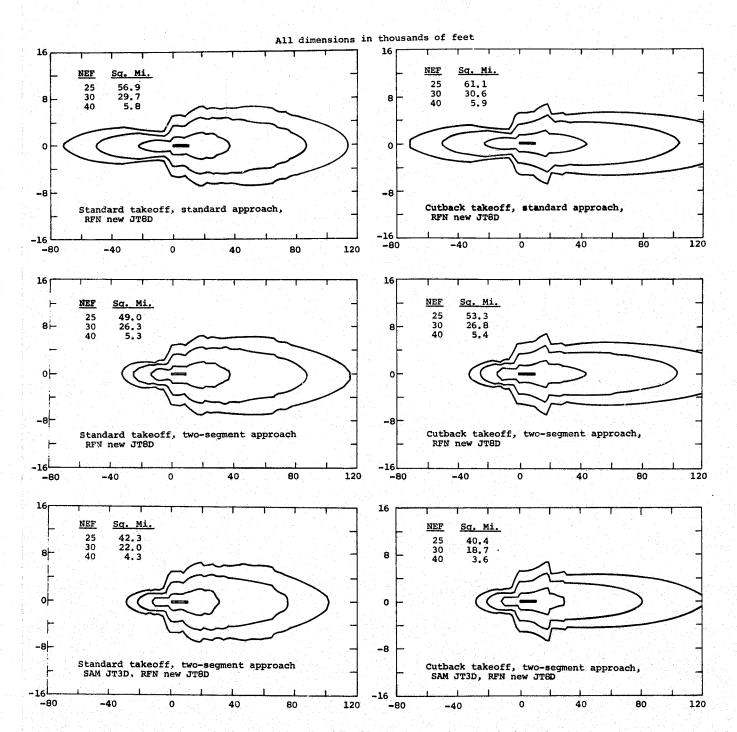


Figure 14.- Effect of cutback takeoff, two-segment approach, and SAM JT3D on 23-airport average in 1987 with refan on new JT8D aircraft.

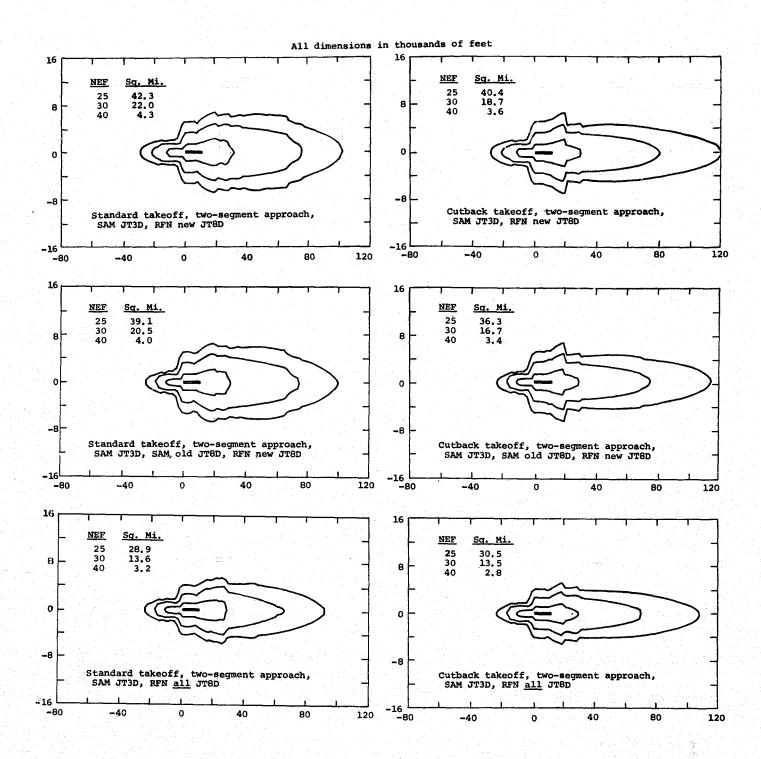


Figure 15.- Effect of SAM JT8D or RFN JT8D on 23-airport average in 1987 with refan on new JT8D aircraft.

CUTBACK TAKEOFF PROCEDURES

In general, cutback takeoff procedures did not give significant changes in the noise contour areas. However, the takeoff characteristics of the JT3D aircraft are considerably different from those of the JT8D aircraft. Because of engine-out design requirements, four-engine aircraft (JT3D-powered) generally climb less steeply and cannot cut back the throttle as much as two- and three-engine aircraft (JT8D-powered). Therefore, throttle cutbacks on takeoff are more effective on the JT8D aircraft than on JT3D aircraft.

The effects of cutback takeoff procedures for JT3D aircraft are compared with SAM JT3D in figure 16. Applying the SAM modification to the JT3D-powered aircraft results in a 15% reduction in the NEF 30 contour area. In contrast, the use of cutback takeoff procedures on the JT3D aircraft results in an 8% increase in the NEF 30 contour area. This occurs because sideline noise is reduced beyond the cutback point, but the contour is lengthened considerably because of the reduced climb angle.

The effects of SAM JT8D, cutback JT8D, and RFN JT8D are shown in figure 17. In this case, SAM gives an 8% reduction in the NEF 30 contour area, cutback gives a 16% reduction, and RFN gives a 48% reduction. Obviously, the use of cutback takeoff on JT8D aircraft is attractive. Several other cases with cutback takeoffs on JT8D aircraft are shown in figure 18.

Figure 19 is a tree of option results for combinations of SAM JT3D, cutback JT3D, and cutback JT8D in 1981. The conclusion is as above; cutback takeoffs on the JT3D are not effective in reducing noise while the SAM retrofit is effective.

Figure 20 is a similar tree for the effects of SAM JT8D, RFN JT8D, cutback JT3D, and cutback JT8D in 1981. Here the conclusion is that the SAM modification of the JT8D is not effective in reducing noise but cutback takeoff procedures are. RFN modifications to the JT8D remain very effective. A second conclusion from figure 20 is that cutback JT8D is still effective if the SAM JT8D modification has been applied, but it is not required if RFN JT8D is used.

Figures 21-25 are analogous to figures 16-20 and give the results for 1987. These results are virtually identical to those for 1981.

The cutback takeoff procedures used in this analysis are rather severe and probably are not suitable for airline operations. However, in view of the noise reductions obtained with cutback procedures on JT8D aircraft, it appears that less severe cutback procedures should be seriously studied. It appears that cutback takeoff procedures for the JT8D aircraft could reduce noise as much as the SAM modification of these aircraft and at a significantly lower cost. In contrast, cutback takeoff procedures are not effective on the JT3D aircraft.

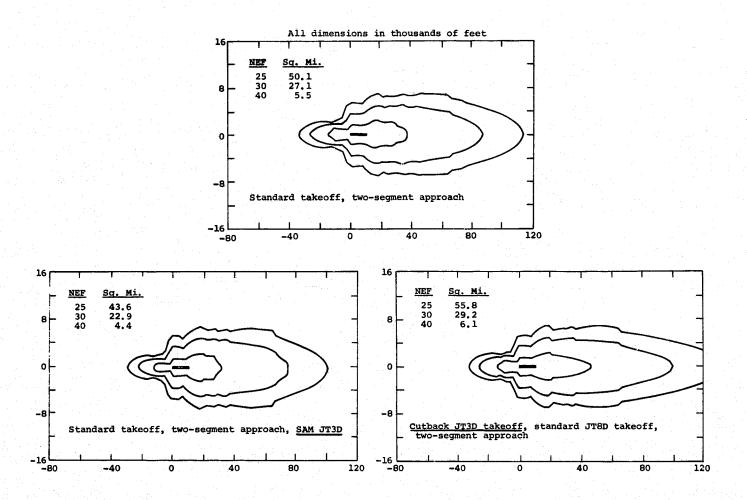


Figure 16.- Effect of SAM JT3D or cutback takeoff JT3D on 23-airport average in 1981.

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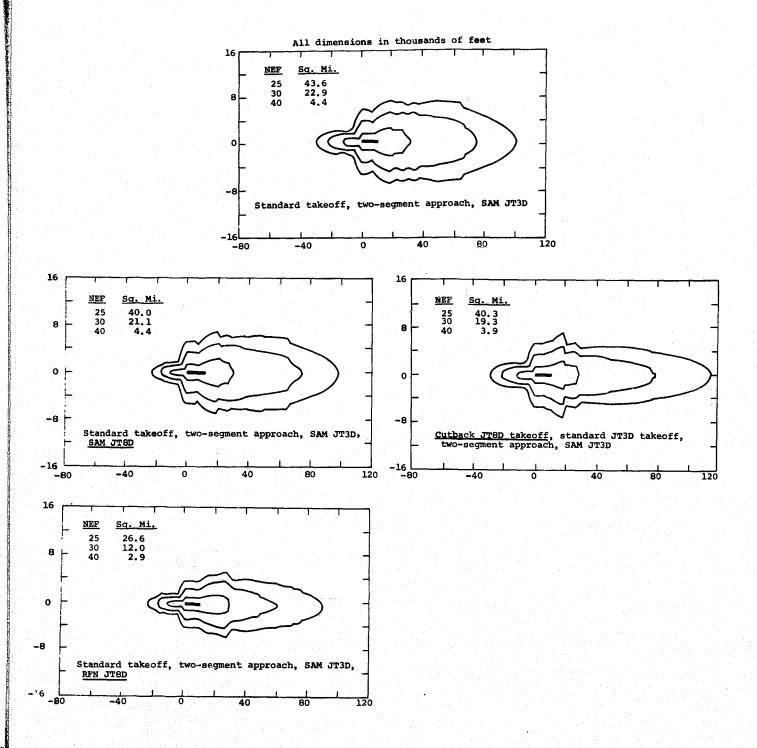


Figure 17.- Effect of SAM JT8D, cutback takeoff JT8D, or RFN JT8D on 23-airport average in 1981.

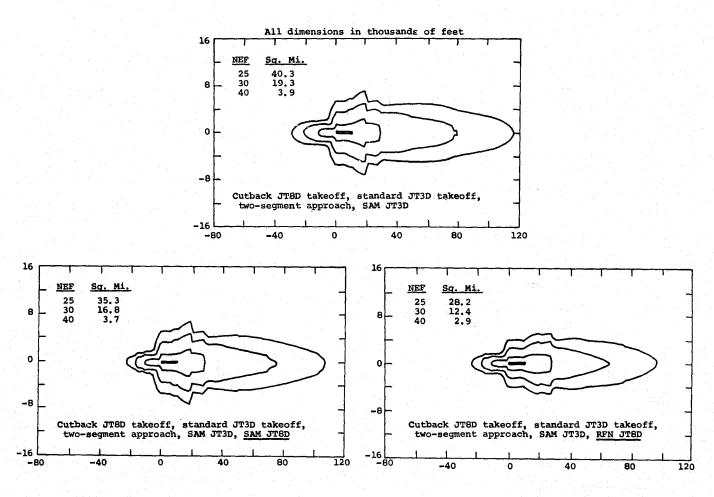


Figure 18.- Effect of SAM JT8D or RFN JT8D with cutback takeoff JT8D on 23-airport average in 1981.

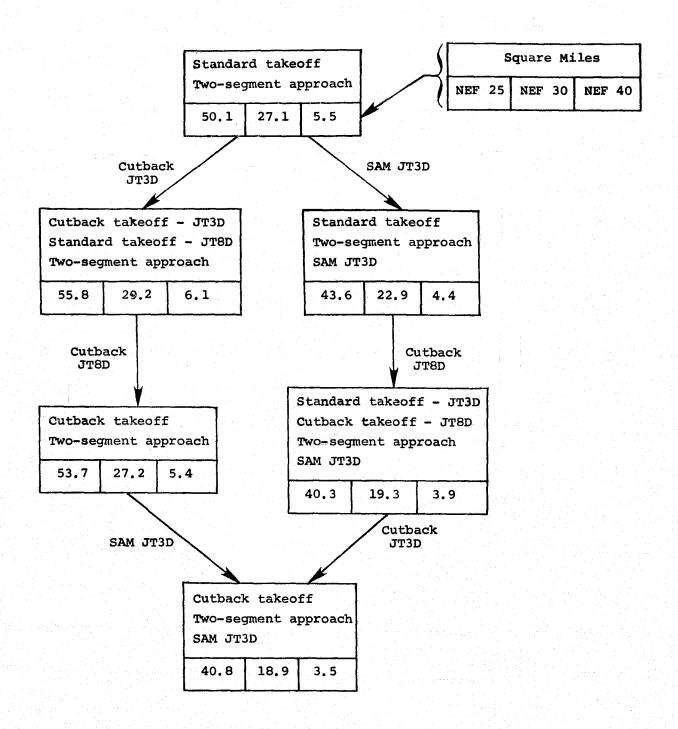


Figure 19. - Tree of effects for SAM JT3D, cutback JT3D, and cutback JT8D in 1981.

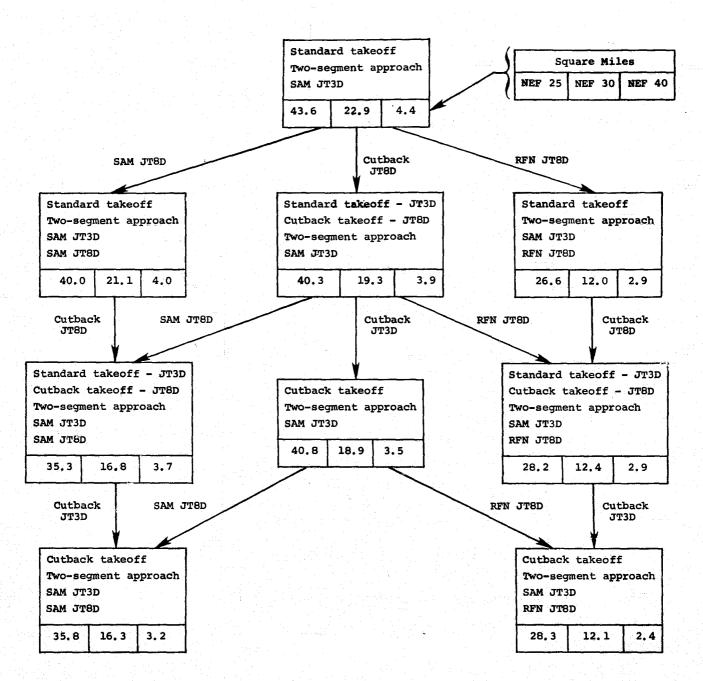


Figure 20.- Tree of effects for SAM JT8D, RFN JT8D, cutback JT3D, and cutback JT8D in 1981.

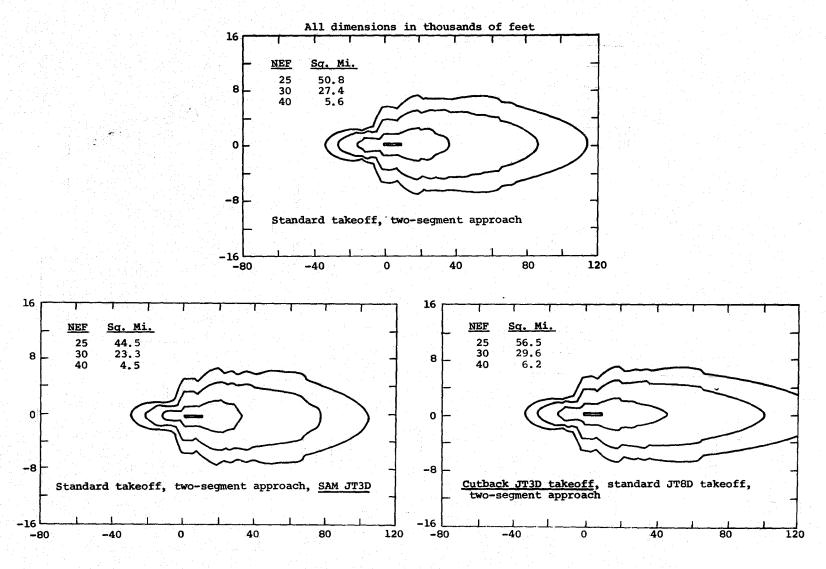


Figure 21. - Effect of SAM JT3D or cutback takeoff JT3D on 23-airport average in 1987.

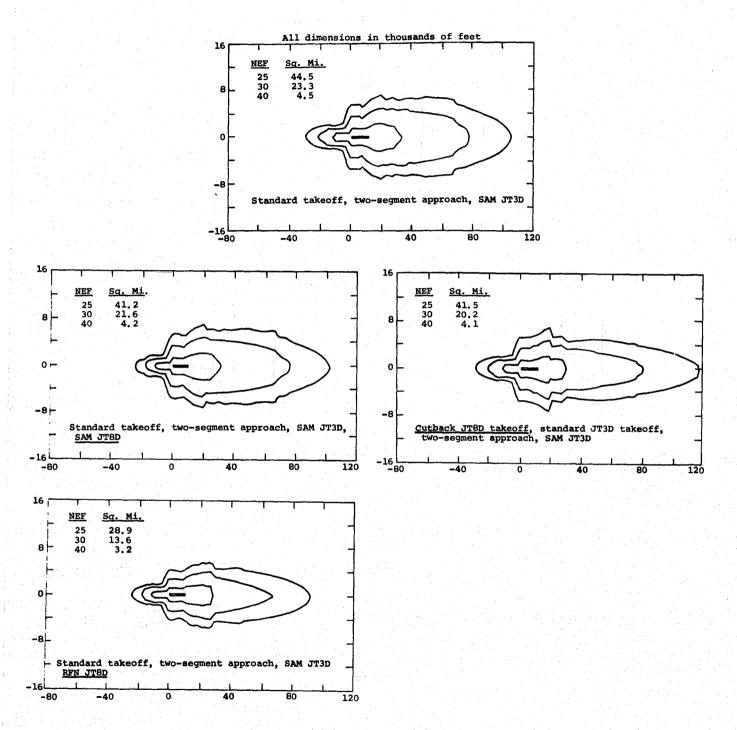


Figure 22.- Effect of SAM JTSD, cutback takeoff JTSD, or RFN JTSD on 23-airport average in 1987.

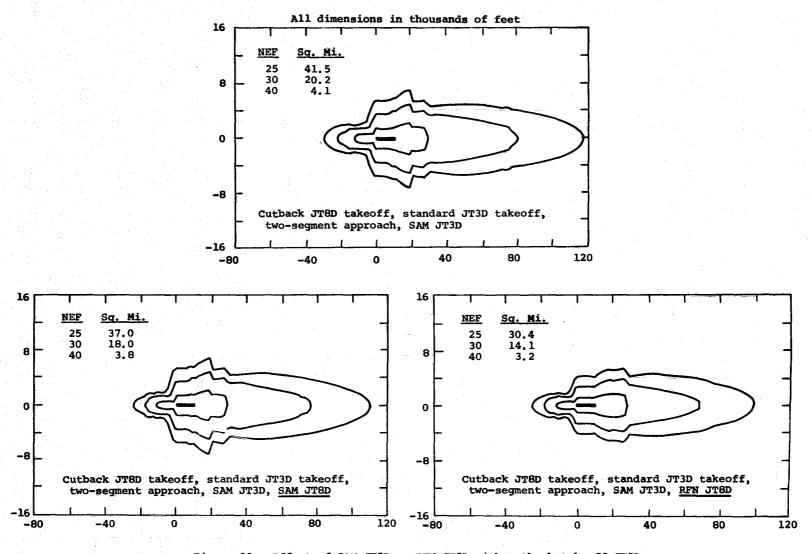


Figure 23.- Effect of SAM JT8D or RFN JT8D with cutback takeoff JT8D on 23-airport average in 1987.

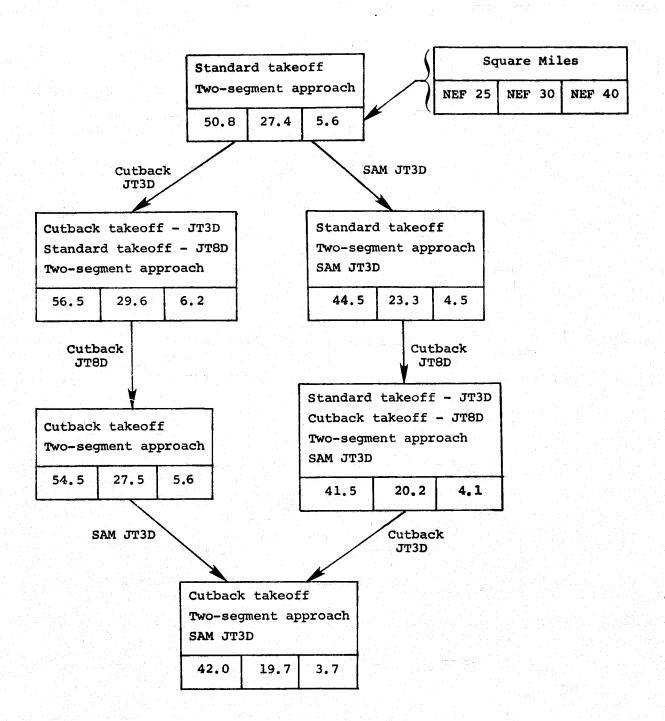


Figure 24.- Tree of effects for SAM JT3D, cutback JT3D, and cutback JT8D in 1987.

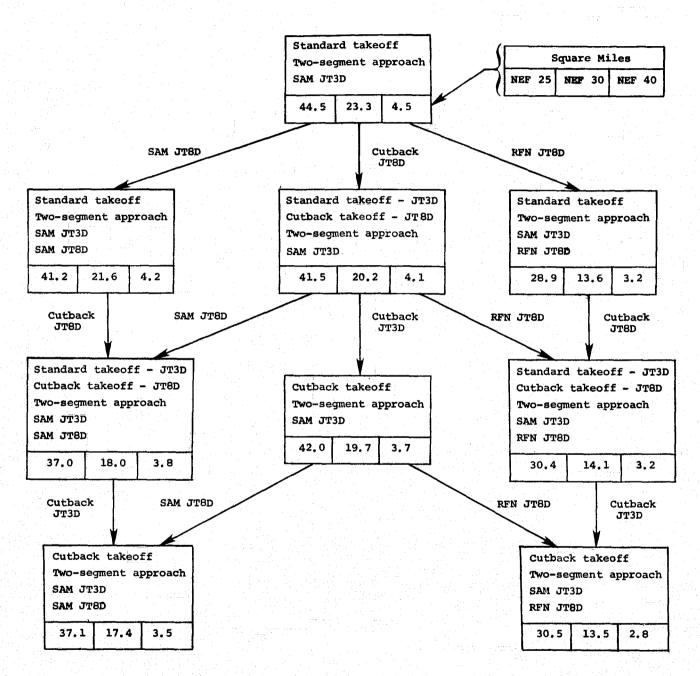


Figure 25.- Tree of effects for SAM JT8D, RFN JT8D, cutback JT3D, and cutback JT8D in 1987.

DELTA-NEF CONTOURS

The results of the previous studies were presented by showing contour plots of NEF 25, 30, and 40 and determining the total area within each of these contours. From these data, it is possible to determine the reductions in area which occur due to the various noise reduction options. However, these data do not indicate the amount which the NEF is reduced at a given location. Data on the amount of reduction is pertinent because large reductions in NEF will be immediately apparent to most residents while small reductions may go unnoticed. Generally, reductions in NEF of less than three are not noticeable (see, for instance, ref. 3).

To obtain information on the amount of NEF reduction at various locations, the program was modified to produce delta-NEF contours; that is, contours along which the reduction in NEF is a given amount. Figures 26 and 27 are delta-NEF contour plots for several example cases. The base data for these plots is the 23-Airport data shown in figures 3 and 4.

baseline case. The NEF 25 contour for this case is shown to indicate approximately the area within which the noise is a problem. It is clear that use of two-segment approaches gives significant reductions in noise under the approach path. SAM JT3D and SAM JT8D give small increases in the noise reduction areas beneath the approach path, but noise reductions under the takeoff path remain less than three units of NEF. RFN JT8D, in combination with two-segment approaches and SAM JT3D, gives a reduction of more than three at almost all locations and more than six in some areas under the takeoff path. The results shown in figure 26 are summarized in Table IX which indicates the square miles within which the noise reduction is more than a given amount for the various options.

Figure 27 and Table X give similar results for the noise reductions due to SAM JT8D or RFN JT8D when the base case incorporates two-segment approaches and SAM JT3D. For SAM JT8D, only a small area under the approach path shows noise reductions greater than three. RFN JT8D gives significant areas where the reduction is greater than three.

Generally, noise is not a problem in areas where NEF is less than 25. In looking at figures 26 and 27, there are significant areas, just inside the baseline NEF 25 contour, where the NEF values for the noise reduction

case are considerably below 25. (For instance, a reduction of six may occur because the original NEF was 26 and the NEF arter application of the option is reduced to 20.) It probably is more valid to ignore noise reductions below NEF values of 25. To account for this a "cutoff" correction was made by setting any NEF value which was below 25 equal to 25 before taking the differences.

The results of using a "cutoff" for NEF values less than 25 are shown in figures 28 and 29 which are analogous to figures 26 and 27. The delta-NEF contours are now contained within the NEF 25 boundary rather than extending beyond that boundary. The conclusions as to the effectiveness of various noise reduction options are essentially unchanged. Tables XI and XII summarize the contour areas shown in figures 28 and 29.

Based on this preliminary investigation, delta-NEF contours appear to provide a useful tool for interpreting the effects of various noise reduction options. The use of a cutoff for NEF values less than 25 appears logical and is recommended.

		REDUCTION IN NEF							
	> 3	> 6	> 9	> 12	> 15				
TWO-SEGMENT	9.9	8.6	6.1	2.8	0				
TWO-SEGMENT + SAM JT3D	11.8	10.2	7.9	4.8	0				
TWO-SEGMENT + SAM JT3D + SAM JT8D	12.1	10.8	9.7	7.2	0.6				
TWO-SEGMENT + SAM JT3D + RFN JT8D	57.6	17.0	10.0	7.2	0.4				

Table IX.- Square miles where noise reduction exceeds given values, for various options relative to standard takeoff, standard approach.

23-airport average in 1981.

	REDUCTIO	ON IN NEF
	> 3	> 6
SAM JT8D	1.9	0
RFN JT8D	33.4	0.3

Table X.- Square miles where noise reduction exceeds given values, for various options relative to standard takeoff, two-segment approach, SAM JT3D. 23-airport average in 1981.

	REDUCTION IN NEF					
	> 3	> 6	> 9	> 12		
TWO-SEGMENT	6.4	2.7	0.5	0		
TWO-SEGMENT + SAM JT3D	7.8	3.6	1.3	0		
TWO-SEGMENT + SAM JT3D + SAM JT8D	7.9	3.9	1.9	0.6		
TWO-SEGMENT + SAM JT3D + RFN JT8D	40.2	6.4	2.0	0.5		

Table XI.- Square miles where noise reduction exceeds given values, for various options relative to standard takeoff, two-segment approach. Noise cutoff for NEF < 25.

23-airport average in 1981.

	REDUCTIO	ON IN NEF
	> 3	> 6
SAM JT8D	0.9	0
RFN JT8D	23.3	0.1

Table XII.- Square miles where noise reduction exceeds given values, for various options relative to standard takeoff, two-segment approach, SAM JT3D. Noise cutoff for NEF < 25. 23-airport average in 1981.

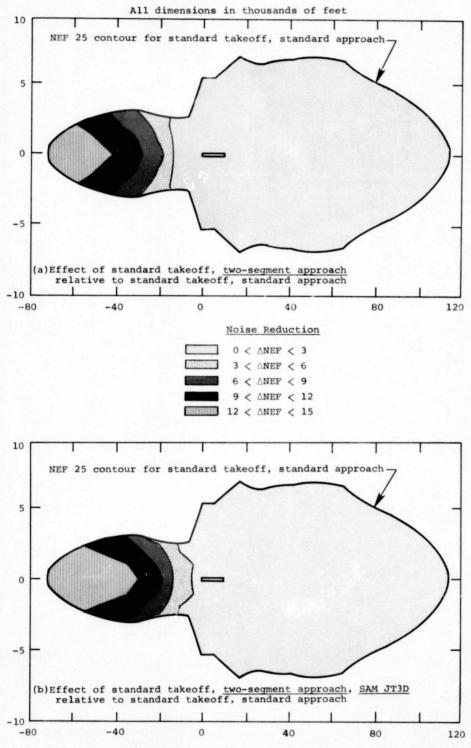
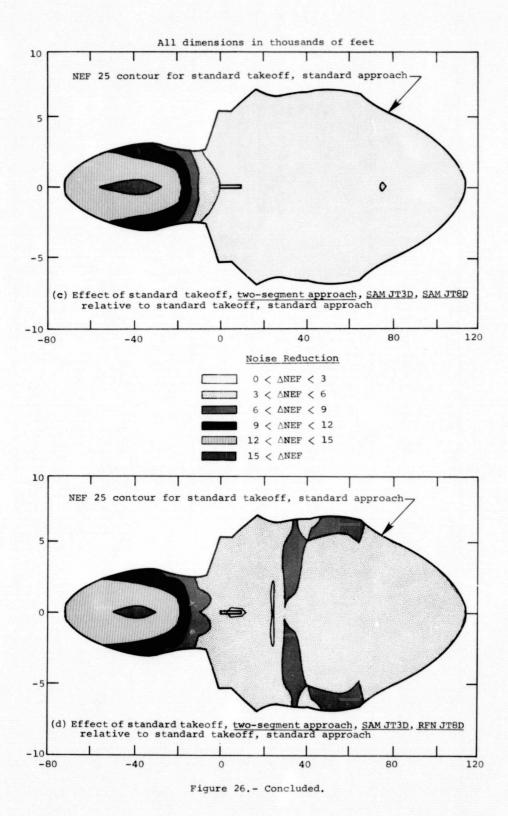


Figure 26.- Reductions in NEF for various options relative to standard takeoff, standard approach;
23-airport average in 1981.



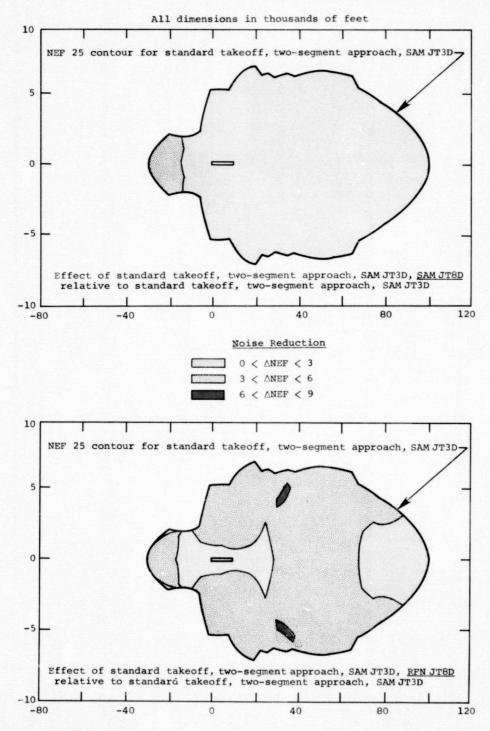
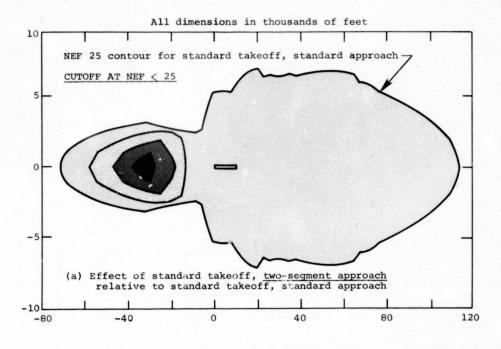
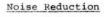


Figure 27.- Reductions in NEF for various options relative to standard takeoff, two-segment approach, SAM JT3D; 23-airport average in 1981.







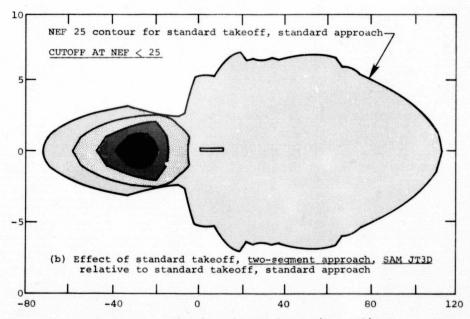


Figure 28.- Reductions in NEF for various options relative to standard takeoff, standard approach; noise cutoff for NEF < 25; 23-airport average in 1981.

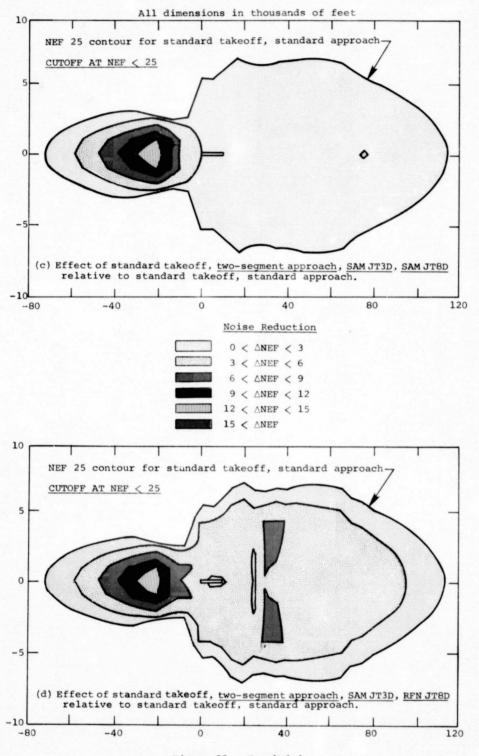


Figure 28. - Concluded.

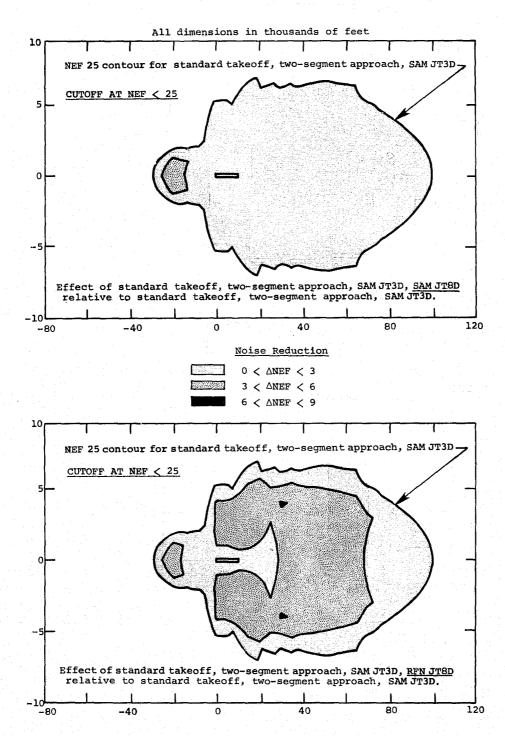


Figure 29.- Reductions in NEF for various options relative to standard takeoff, two-segment approach, SAM JT3D; noise cutoff for NEF < 25; 23-airport average in 1981.

APPENDIX A

FLIGHT PROFILES AND DIAGNOSTICS

The purpose of this appendix is to present computer printouts which may be useful in further analyzing the data of the report. Information on the operational flight paths of the aircraft is presented in Table A-I. Diagnostics, which indicate the contribution of each aircraft type to the noise at the NEF 30 closure points are presented in figures A-I to A-66.

Table A-I lists the aircraft types which were studied and indicates a type-number for each aircraft. This number is used in the diagnostics for identification. Also, the takeoff and approach flight profiles which were used as input are shown for each aircraft type.

Two to six segments are used to describe each profile with each segment requiring one line of computer input. The numbers in each line correspond to the horizontal length of the segment in feet, the flight path angle in degrees, the thrust of the engine in pounds (except for the B747 where RPM is given), a zero indicating straight flight, and the aircraft velocity in knots. Flight profile segments are always listed from the runway position outward.

Flight profiles for the standard and cutback takeoffs and for standard and two-segment approaches are given in Table A-I. The takeoff profiles are for takeoff at maximum gross weight. For shorter range flights, the takeoff weights would be lower, the takeoff climb angles would tend to be higher, and resulting noise on the ground would be somewhat reduced. The approach profiles are for typical landing conditions and would not be dependent on the range of the flight. Note that the SAM modification does not significantly change the flight profiles, but the RFN modification results in an improvement in thrust and higher takeoff climb angles.

The diagnostics for all of the cases presented in this report are given in figures A-1 to A-66. Figures A-1 to A-21 are for the 23-Airport study; figures A-22 to A-42, the curfew JT3D study; figures A-43 to A-58, the study of refanning new JT8D aircraft; and figures A-59 to A-66, the study of cutback takeoff procedures. To aid in the use of these diagnostics, an index will be found starting on page 69, just before figure A-1.

Looking at figure A-1, the first line indicates coordinates of the point on the ground where the noise exposure was analyzed. For each case,

the noise has been analyzed at the two points on the longitudinal axis under the approach and takeoff flight tracks where the NEF value is 30. These are referred to as the NEF 30 closure points of the contour.

Each line of data in the diagnostic represents the noise effect of takeoffs or approaches by a single aircraft type. Reading across this line of data the first number is the order of the flight in the input data. The second number indicates the aircraft type as specified in Table A-1, with a positive type number indicating a takeoff operation and a negative for landing. The third number indicates which segment of the profile the aircraft is in when it is closest to the observation point on the ground. "H" is the slant range, in feet, between the aircraft and the observation point at the point of closest approach. "B" is the elevation angle of the aircraft, in degrees above the horizon, as seen from the observation point at the point of closest approach. "PFN" is the engine thrust, in pounds (or rpm for the B747), at closest approach.

"BASE EPNDB" is the basic uncorrected EPNL of the aircraft at slant range H and thrust PFN, in EPNdB. "SHIELDING" is the ΔEPNL to be subtracted for an aircraft shielding correction, in EPNdB. "ATTENUATION" is the ΔEPNL to be subtracted due to excess ground attenuation, in EPNdB. "OPERATIONS" is the ΔEPNL to be added to account for the number of operations, in EPNdB. In the NEF calculation this correction is ΔEPNL = 10 log (Day Operations + 16.67 × Night Operations). "NET EPNDB" is the total EPNL with corrections for the effects of shielding, excess ground attenuation, and number of operations, in EPNdB. Finally, "EPNDB SUBTOTAL" is the cumulative EPNL including the given flight and all proceeding flights, in EPNdB. Note that for the NEF 30 closure points all the diagnostics finish with an EPNdB total of 118.

The first and second most noisy flight numbers have been identified by writing in the aircraft type. The noisiest flights are those with the highest numbers in the "NET EPNDB" column. Because the noise contributions are summed logarithmically, these aircraft dominate the noise situation for that particular case. Modifications which reduce the noise of the dominant aircraft will give significant reductions in contour areas, while modifications to the less noisy aircraft will have little effect on the noise contours.

Type 1 - B747

 SEGMENT LENGTH, FT	FLIGHT PATH ANGLE, DEG	POWER SETTING, LB OR RPM	-	KNOTS	SEGMENT LENGTH, FT	FLIGHT PATH ANGLE, DEG	POWER SETTING, LB OR RPM	CURVATURE,	VELOCITY, KNOTS
10500. 19000. 24250. 20500.	0.00 4.51 3.54 0.63 3.27	3355. 3355. 2800. 2800. 2800.	C. C. C.	119. 195. 195. 273.	10500. 19000. 24250. 20500. 200000.	0.00 4.51 3.54 0.63 3.27	3355. 3355. 2800. 2800. 2800.	0. 0. 0.	119. 195. 195. 223. 250.
<u> </u>	Stand	ard take	off			Cutb	ack take	off	
6800. 18240. 100000.	0.00 3.00 3.00	2281. 2281. 2305.	0. 0. 0.	100. 146. 147.	6800. 18240. 200000.	0.00 3.00 5.50	2281. 2281. 1615.	0. 0. 0.	100. 146. 156.
	Stand	ard appr	oach			Two-sec	ment ap	proach	

Type 2 - DC10/L1011

Type L	DCIO/HIUII				
7830.	0.00 35300.	C. 104.	7800.	0.00 35300.	U. 104.
15450	4.45 31000.	0. 175.	15450.	4.45 31000.	0. 176.
19250.	3.8C 27400.	C. 176.	19250.	3.80 27400.	0. 176.
27300.	1.30 27400.	0. 213.	27000.	1.30 27400.	0. 213.
200000.	2.81 25800.	0. 250.	200000.	2.81 25800.	0. 250.
		e and			
	Standard takeo	ff		Cutback takeoff	
5500.	0.00 12100.	0. 100.	5500.	0.00 12100.	o. 100.
700000	3.00 12100.	C. 149.	13190.	3.00 12100.	0. 140.
00000	12000		200000.	6.06 3400.	0. 152.
	Standard appro	ach		Two-segment appro	ach

Type 3 - B707 and SST

	Standard approach	Two-segment approach
59 7 0. 200000.	0.J0 5100. 0. 10 3.)v 5100. 0. 14	
15000. 21 1000. 26750. 2000000.	4.95 15200. C. 176 4.09 12600. 0. 176 0.86 12600. 0. 213 3.48 12300. 0. 250 Standard takeoff	7360. 4.85 14500. 0. 184. 200000. 2.29 12080. 0. 184.
9000. 4000.	0.00 15200. 0. 104 2.86 15200. 0. 176	

(a) Page 1.

Table A-I. - Aircraft type numbers and operational flight profiles.



Type 4 - B707 SAM (same profiles as type 3)

Type 6 - DC9 SAM (same profiles as type 11)

Type 7 - B727

	Stand	ard appro	ach		3	Iwo-segr	ment approa	ach	
					200000.	6.00	1800.	U.	150.
200000.	3.)0	4330.	0.	145.	13190.	3.00	4330.	U.	145.
48().	0.10	4330.	0.	100.	4800.	0.00	4330.	0.	100.
	Stan	lard take	off			Cutba	ck takeoff	1	
							± .		
200 to	7.17	10230.	C.	250.					
20753.	3.65	10700.	0.	239.	200000.	2.58	8060.	0.	178.
1600).	5.36	10700.	0.	168.	9700.	6.77	12310.	Ú.	176.
12250.	6.40	12300	0.	168.	1930.	3.68	12290.	0.	100.
1750.	4.90	12300.	0.	168.	1270.	1.58	12290.	0.	100.
7)00.	0.00	12300	0.	100.	6540.	0.00	12290.	Ü.	100.

Type 8 - B727 SAM (same profiles as type 7)

Type 10 - B727 RFN

0.00 L	2900.	0.	100.	6030.	0.00	12900.	υ.	100.
6.JC 1	2900.	. 0.	168.	1220.	1.64	12900.	υ.	100.
7.40 1	2900.	0.	168.	1990.	4.08	12900.	υ.	100.
6.60 1	1200.	C.	168.	11060.	6.89	12840.	0.	176.
4.96	1200.	0.	209.	200000.	2.69	8250.	u.	170.
6.70 1	1200.	0.	250.					
Standa	rd takeof	£	1		Cutbac	k takeoff		
0.10	4330	0.	100	4800.	0.00	4330	1).	100.
		0.	145.	13190.	3.00			145.
				200000.	6.00	1800.	0.	150.
Standar	d approa	ch	1	7	wo-seqm	ent approac	2h	
	6.JC 1 7.40 1 6.60 1 4.90 1 6.70 1 Standar	6.JC 12900. 7.40 12900. 6.60 11200. 4.90 11200. 6.70 11200. Standard takeof	6.JC 12900. 0. 7.40 12900. 0. 6.60 11200. C. 4.90 11200. 0. 6.70 11200. 0. Standard takeoff	6.JC 12900. 0. 168. 7.40 12900. 0. 168. 6.6C 11200. C. 168. 4.9C 11200. 0. 209. 6.7C 11200. 0. 250. Standard takeoff 0.J0 4330. 0. 190. 3.1C 4330. 0. 145.	6.JC 12900. 0. 168. 1220. 7.40 12900. 0. 168. 1990. 6.60 11200. C. 168. 11060. 4.90 11200. 0. 209. 200000. 6.70 11200. 0. 250. Standard takeoff 0.J0 4330. 0. 100. 4800. 3.10 4330. 0. 145. 13190. 200000.	6.JC 12900. 0. 168. 1220. 1.64 7.40 12900. 0. 168. 1990. 4.08 6.60 11200. C. 168. 11060. 6.89 4.90 11200. 0. 209. 200000. 2.69 6.7C 11200. 0. 250. Standard takeoff Cutbac 0.J0 4330. 0. 190. 4800. 0.00 3.1C 4330. 0. 145. 13190. 3.00 200000. 6.00	6.JC 12900. 0. 168. 1220. 1.64 12900. 7.40 12900. 0. 168. 1990. 4.08 12900. 6.60 11200. C. 168. 11060. 6.89 12840. 4.90 11200. 0. 209. 200000. 2.69 8250. 6.7C 11200. 0. 250. Cutback takeoff Standard takeoff O.JO 4330. 0. 190. 4800. 0.00 4330. 3.1C 4330. 0. 145. 13190. 3.00 4330. 200000. 6.00 1800.	6.JC 12900. 0. 168. 1220. 1.64 12900. U. 7.40 12900. 0. 168. 1990. 4.08 12900. U. 6.60 11200. C. 168. 11060. 6.89 1284U. 0. 4.90 11200. 0. 209. 200000. 2.69 8250. U. 6.70 11200. 0. 250. Standard takeoff Cutback takeoff 0.J0 4330. 0. 190. 4800. 0.00 4330. U. 3.10 4330. 0. 145. 13190. 3.00 4330. U. 200000. 6.00 1800. 0.

Type 11 - DC9

<u> </u>					100
700% 0.00 2003 5.71	12200. 0. 12200. 0.	95. 158.	5800 • 0 • 00 2500 • 6 • 30	12200. 0. 12200. 0.	95. 158.
1000 - 7.41 1600 - 5.36	12200. 0. 10800. 0.	158. 158.	4400. 8.30 6700. 7.80	12200. 0. 12200. 0.	158. 158.
1150. 2.82 120011. 6.17	10800. 0. 10600. 0.	204. 250.	200000. 5.20	9600. 0.	180.
Star	ndard takeoff		Cutba	ck takeoff	
492 . 0.00 200 . 3.00	5411. 0. 5411. 0.	100. 141.	4920. 0.00 13190. 3.00 200000. 6.00	5411. U. 5411. O. 2800. U.	100. 141. 148.
Stan	dard approach		Two-segn	ment approach	

(b) Page 2.

Table A-I. - Continued.

Type 12 - DC9 RFN

		Stan	dard appro	ach			Two-s	segment a	pproach	
	4920. 200000.	0.00 3.00	5370. 5370.	0 • 6 •	100.	4920. 13190. 200000.	0.00 3.00 6.00	5370. 5370. 2800.	ن. ن. 0.	100. 141. 148.
		Star	ndard take	off			Cu	tback tak	ceoff	
	200000.	7.60	11300.	0.	250.	200000.	4.60	9600.	0.	180
1	12500.	6.80	12750.	0.	204.	8100.	8.80	12750.	U.	158.
ŀ	10000.	7.40	12750.	Ò.	158.	3800.	9.40	14750.	u.	158.
1	2500.	4.60	12750.	0.	158.	2500.	7.00	12750.	U.	158.
ı	5000.	0.00	12750.	0.	95.	5000.	0.00	12750.	0.	95.

Type 14 - DC8

	Standard appro	oach		Two-segment appr	roach
5970. 100000.	0.00 5208. 3.00 5208.	0. 100. C. 154.	5970. 13190. .200000.	0.00 5208. 3.00 5208. 5.50 2600.	0. 100. 0. 154. 0. 159.
	Standard take	off		Cutback takeo	ff
² 6750. ² 00000.	0.86 12600. 3.48 12300.	0. 213. C. 250.			
21000.	4.05 12600.	0. 176.	200000.	2.30 11530.	178.
4000. 15000.	2.86 15200. 4.95 15200.	C. 176. 0. 176.	4100. 6700.	2.94 15200. 4.60 15200.	0. 176. 0. 176.
900).	0.00 15200.	0. 104.	8400.	0.00 15200.	U. 104.

Type 15 - DC8 SAM (same profiles as type 14)

Type 17 - B737

			ing the first of the second of		
5500	0.00 12600.	100.	5130. 0.00	12460. 0.	100.
1500.	7.59 12600.	167.	880. 2.28	12460. 0.	100.
8250.	9.95 12600.	167.	1860. 7.56	12460.	100.
11500.	7.42 10750.	167.	11570. 8.98	12570. 0.	164.
9250	3.09 10750.	209.	200000. 4.23	8330. 0.	167.
,00000	5.60 10300.	250.			
	Standard takeoff		Cı	tback takeoff	
2750.	0.00 3660.	100.	3750. 0.00	3660. J.	100.
,00000.	3.70 3660.	0. 146.	13190. 3.00	3660. 0.	146.
			200000. 5.00	2100. 0.	151.
	accidents included				
	Standard approach		Two-	segment approach	

(c) Page 3.

Table A-I. - Continued.

Type 18 - WIDE TWIN

5500. 200000.	0.70 3.20	12100. 12100.	0.	100. 140.	5500. 13190. 200000.	3.00 6.00	12100. 12100. 8400.	0. 0.	100. 140. 152.
		dard take					ack takeof		
200000	4.17	31600.	C.	250.	200000.	4.77	31600.	0.	250.
32000.	2.77	33600.	0.	204 •	32000.	2.77	33600.	U.	204.
12000.	7.13	33600.	0.	157.	12000.	7.13	33600.	G.	157.
8000.	8.18	38000.	0.	157.	8000.	8.18	38000.	. U.	157.
3000.	6.65	38000	0.	157.	3000.	6.05	38000.	0.	157.
7000.	0.00	43250.	0.	95.	7000.	0.00	43250.	v.	95.

Type 19 - B737 RFN

Standard approach						Two-se	gment app	roach	
3750. 200000.	0.30 3.00	3660. 3660.	0.	100. 146.	3750. 13190. 200000.	0.00 3.00 5.00	3660. 3660. 2100.	0. 0. 0.	100. 146. 151.
Standard takeoff					Cutback takeoff				
9500. 200000.	4.50 7.50	11000.	G. O.	209 • 250 •	200000.	4.23	8390.	ű.	168.
7530. 9500.	10.20 8.40	13160.	0.	167. 167.	1900. 12950.	7.91 9.24	13160. 13230.	0. 0.	100. 164.
4200 . 2200 .	0.10 7.50	13160.	0.	100.	4710. 840.	2.39	13160. 13160.	υ . . υ.	100.

Type 20 - B737 SAM (same profiles as type 17)

(d) Page 4.

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		-	a control species for the					A T	Ö			
	A	MS		The second secon			S H I	E N	E R	أنت به بدر	S U	
N	R_	AE XG	· · · · · · · · · · · · · · · · · · ·			E	E	U A	<u>A</u>		B ET	
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P		MT	. H	B	PFN	EB	G	N	S	TB	BL	
-		C	MAGNUSTIC	FOR 23	ARPT AVG	BASI	1 9	72 NIG	HT COF	RECTE) MAXGW	ATA 3DG
1	3	. 1	58962.00	0.00	15200.0	58.5	3.0	10.0	21.8	67.3	67.3	and the second s
2	- 3	2	3132.93	90.00	5100.0	92.1	0.0	0.0	21.8	113.9	113.9	B707
3	7	1	58962.00	0.00	12300.0	64.8	3.0	10.0	23.8	75.6	113.9	
4	-7	2	3132.93	90.00	4330.0	86.6	0.0	0.0	23.8	110.4	115.5	
5	17	1	53962.00	0.00	12600.0	58.1	3.0	10.0	15.4	60.6	115.5	
6	-17	2	3132.93	90.00	3660.0	80.3	0.0	0.0	15.4	95.7	115.5	. ६ - प्रदेशक चेकानुष्याने अनुस्तर स्त्री स्त्रीत स्त्री
7	14	1	53962.00	0.00	15200.0	59.7	3.0	10.0	21.4	68.1	115.5	. • • · · · · · · · · · · · · · · · · ·
8	-14	2	3132.93	90.00	5208.0	92.2	0.0	0.0	21.4	113.6	117.7	DC8
9	2	ì	58962.00	C.00	35300.0	62.4	3.0	10.0	13.1	62.5	117.7	
0	-2	⁻ 2	3132.93	90.00	12100.0	78.7	0.0	0.0	13.1	91.8	117.7	generalis in April primaries de
1	11	1	58962.00	0.00	12200.0	64.9	3.0	10.0	22.4	74.3	117.7	
2.	- ± 1	2	3132.93	90.00	5411.0	83.4	0.0	0.0	22.4	105.8	118.0	
3	1	ī	58962.00	0.00	3355.0	51.8	3.0	10.0	14.5	53.3	116.0	
4	-1	3	3132.93	90.00	2305.0	84.0	0.0	0.0	14.5	98.5	118.0	

(a) Page 1.

Figure A-1.- 23-Airport, 1972 - standard takeoff, standard approach.

. +			The strange of the second seco					T T	D.			
FN	A I R	MS AE		graphic street of the street of			S H I E	T E N U	P E R		S U B	
LU IM GB HE TR	RT AY FP	XG I M	# H	В	PFN	E BP AN SD EB	L D I N	A T I	T I O N S	E P NN ED TB	ET PO NT DA BL	
	· · ·	D	IAGNOSTIC	FOR 23	ARPT AVG	BASE	19	72 NIG	HT CO	RECTE	MAXG	ATA 3DG
1	,)	6	4817.75	90.00	12300.0	91.8	0.0	0.0	21.8	113.6	113.6	B707
2	- 3	-1 -	92340.00	0.00	5100.0	32.2	3.0	15.0	21.8	36.0	113.6	
3	7	6	8956.04	90.00	10230.0	84.6	0.0	0.0	23.8	108.4	114.7	
4	-7	1	73519.00	0.00	4330.0	34.7	3.0	15.0	23.8	40.5	114.7	. a. a. ana ampira . mante ampira artistation
5	17	6	9636.62	90.00	10300.0	76.3	0.0	0.0	15.4	91.8	114.8	
6	-17	1	94569.00	0.00	3660.0	25.5	3.0	15.0	15.4	23.0	114.8	<u></u>
7	14	6	4817.75	90.00	12300.0	93.4	0.0	0.0	21.4	114.8	117.8	DC8
8	-14	1	92349.00	0.00	5208.0	2.9	3.0	15.0	21.4	6.3	117.8	
9	2	5	4544.04	90.00	25800.0	81.1	0.0	0.0	13.1	94.3	117.8	
10	-2	1	92819.00	0.00	12100.0	29.1	3.0	15.0	13.1	24.2	117.8	nga managang panggang dan Astrikan
11	.1	6	8157.13	90.00	10600.0	79.8	0.0	0.0	22.4	102.2	117.9	
12	-11	1	93399.00	0.00	5411.0	28.9	3.0	15.0	22.4	33.3	117.9	
13	1	5	4641.03	90.00	2800.0	83.5	0.0	0.0	14.5	98.0	118.0	
14	-1	1	91519.00	0.00		33.1) Page			14.5	29.6	118.0	
					Figure A							

ΑΝΔ	LYS	IS F	OR OBSERVE	R AT (-50478.0	00,		0.00)			
FN LU IM GB HE	A I R C RT AY FP TF	AE XG IM ME UN				E BP AN SD	E D I N	T E N U Ä T	A T I O	E P NN ED TB		
		C	TAGNESTIC	FOR 23	ARPT AVG	BASE	198	1 NIG	нт соч	RECTE	MAXG	ATA 3DG
1	3	1	50578.00	0.00	15200.0	61.1	3.0	10.0	18.0	66.1	66.1	
2	-3	2	2694.15	90.00	5100.0	94.4	0.0	0.0	18.0	112.4	112.4	B707
3	. <i>i</i>	7	50578.00	C.00	12300.0	67.1	3.0	10.0	23.9	78.0	112.4	
4	-7	2	2694.15	90.00	4330.0	88.4	0.0	0.0	23.9	112.3	115.4	B/27
5	17	.1	50578.00	0.00	12600.0	60.5	3.0	10.0	16.0	63.5	115.4	
6	-17	2	2694.15	90.00	3660.0	82.3	0.0	0.0	16.0	98.3	115.4	
7	14	1	50578.00	0.00	15200.0	62.1	3.0	10.0	16.9	66.0	115.4	
8	-14	2	2694.15	90.00	5208.0	94.8	0.0	0.0	16.9	111.7	117.0	
9	2	1	50578.00	0.00	35300.0	64.1	3.0	10.0	24.7	75.7	117.0	
10	- 2	2	2694.15	90,00	12100.0	80.8	0.0	0.0	24.7	105.5	117.3	
11	11	1	50578.00	0.00	12200.0	66.7	3.0	10.0	21.2	75.0	117.3	
12	-11	2	2694.15	90.00	5411.0	85.4	0.0	0.0	21.2	106.6	117-6	
					(a) P	age 1	•					

Figure A-2.- 23-Airport, 1981 - standard takeoff, standard approach.

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 0.0
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 19.2
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 18
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IM	RT	IM					BP	Ð	Τ.	1	P	PO
GB	AY	ΜĘ					AN	I	I ·	ŋ	NN	NT
HE .	FΡ	IJN					SD	N,	0	Ν	En	DA
TP	TE	MT	t	4	B	PEN	EB	G	N	S	T B	BL

DIAGNOSTIC FOR 23 ARPT AVG BASE 1981 NIGHT CORRECTED MAXGW ATA 3DG

1 3 6 4069.25 90.00 12300.0 94.3 0.0 0.0 18.0 112.2 112.2 **B707**2 -3 1 80018.00 0.00 5100.0 34.8 3.0 15.0 18.0 34.8 112.2
3 7 6 7416.96 90.00 10230.0 87.2 0.0 0.0 23.7 111.1 114.7
4 -7 1 81188.00 0.00 4330.0 37.1 3.0 15.0 23.9 43.0 114.7
5 17 6 8433.32 90.00 10300.0 78.4 0.0 0.0 16.0 94.4 114.8
(b) Page 2.

Figure A-2. - Continued.

6	-17	1	82238.00	0.00	3660.0	27.9 3.0 15.0	16.0	25.9 114.8
7	14	6	4069.25	90.00	12300.0	96.0 0.0 0.0	16.9	112.9 116.9 DC8
8	-14	1	89018.00	0.00	5208.0	7.0 3.0 15.0	16.9	5.9 116.9
9	2	5	3939.52	90.00	25800.0	32.9 0.0 0.0	24.7	107.6 117.4
10	-2	1	80488.00	0.00	12100.0	31.3 3.0 15.0	24.7	37.9 117.4
11	11	6	6831.80	90.00	10600.0	82.1 0.0 0.0	21.2	103.3 117.6
12	-1:	1	81068.00	C. 00	5411.0	31.3 3.0 15.0	21.2	34.6 117.6
13	1	5	3937.65	90.00	2800.0	85.6 0.0 0.0	20.2	105.8 117.9
14	-1	1	79188.00	0.00	2281.0	35.4 3.0 15.0	20.2	37.6 117.9
15	8	6	7416.96	90.00	10230.0	86.2 0.0 0.0	14.1	100.3 117.9
16	-8	1	81188.00	0.00	4330.0	36.6 3.0 15.0	14.1	32.7 117.9
17	18	- 5	6591.33	90.00	31600.0	78.7 0.0 0.0	19.2	98.0 118.0
18	-18	1	80488.00	0.00	12100.0	29.5 3.0 15.0	19.2	30.7 118.0

(c) Page 3. Figure A-2.- Concluded.

		-	Harrison vol. 18 va				S	A T T	O P	MATERIAL STREET, AND ADDRESS.		•
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HE TR	FP	UN MT	Н	8	PFN	SD EB	N G	O N	N S	ED TB	DA BL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		֓֟ ֞	IAGNOSTIC	FOR 23	ARPT AVG	BASE	19	B1 MAX	GW ATA	6-3DG	NIGH	T CORRECTED
1	3	1	26089.00	0.00	15200.0	72.4	3.0	10.0	18.0	77.4	77.4	ئىلى ئامىلىكى بىلىكى بىلىكى ئامىرىكى ئامىلىكى بىلىكى ب
2	-3	3	2012.88	90.00	2500.0	95.4	0.0	0.0	18.0	113.4	113.4	B707
3	7	1	26089.00	0.00	12300.0	76.9	3.0	10.0	23.9	87.8	113.4	
4	-7	3	2132.70	90.00	1800.0	89.1	0.0	0.0	23.9	113.0	116.2	8727
5	17	1	26089.00	0.00	12600.0	70.6	3.0	10.0	16.0	73.6	116.2	
6	-17	ŝ	1892.97	90.00	2100.0	84.4	0.0	0.0	16.0	100.4	116.3	
7	14	1	26089.00	0.00	15200.0	72.7	3.0	10.0	16.9	76.6	116.3	
8	-14	3	2012.88	90.00	2600.0	93.5	0.0	0.0	16.9	110.5	117.3	the winds of a second second second
9	2	1	26089.00	0.00	35300.0	71.5	3.0	10.0	24.7	83.2	117.3	•••
10	-2	3	2132.70	90.00	8400.0	79.8	0.0	0.0	24.7	104.5	117.5	Acceptance in the contract of
11	11	1	26089.00	0.00	12200.0	74.6	3.0	10.0	21.2	82.9	117.5	
12	-11	3	2132.70	90.00	2800.0	83.3	0.0	0.0	21.2	104.6	117.8	

(a) Page 1.

Figure A-3.- 23-Airport, 1981 - standard takeoff, two-segment approach.

13	1	1	26089.00	0.00	3355.0	66.4	3.0	10.0	20.2	73.6	117.8
14	-1	3	1793.16	90.00	1615.0	83.9	0.0	0.0	20.2	104.1	117.9
15	8	ī	26089.00	0.00	12300.0	76.2	3.0	10.0	14.1	77.3	117.9
16	-8	3	2132.70	90.00	1800.0	79.0	0.0	0.0	14.1	93.0	118.0
17	18	ī	26089.00	0.00	43250.0	77.7	3.0	10.0	19.2	84.0	118.0
18	-18	3	2132.70	90.00	8400.0	78.0	0.0	0.0	19.2	97.3	118.0

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N	A I R	MS AE		-	The state of the s	•	-		H I E	E N U	E R		S			
U M B	C RT AY	XG IM ME						E BP AN	L D I	A T I	Ť	E P NN	ET PC NT)	in i japanente (k. v. d. dec. v.	
R		UN MT	н		В		PFN	SD EB	N G	O N	N S	ED TB	DA Bl	-		
		D	ĨAGNOS	TIC	FOR	23	ARPT AVO	BAS	E 198	31 MAX	GW AT	6-3D	S NIC	нт	CORREC	TEC
L	3	6	4057	•66	90.	00	12300.0	94.3	0.0	0.0	18.0	112.3	112.3	B	707	
1 2							5100.0								707	
1 2 3	-3	. i	79827	• 00	0.	00		34.9	3.0	15.0	18.0	34.8	112.3	3	707	
1 2 3	-3	ì	79827	•00 •12	90.	00 00	5100.0	34•9 87•3	3.0	15.0	18.0	34.8 111.2	112.3		707	
4	-3 7 -7	6	79827 7393 80997	•00 •12	90.	00 00 00	5100.0	34.9 87.3 37.1	3.0	0.0	23.9	34.8 111.2 43.0	114.8	3	701	

(b) Page 2.
Figure A-3.- Continued.

7	14	6	4057.66	90.00	12300.0	96.1 0.	0.0	16.9	113.0 117.0	DC8
8	-14	1	79827.00	0.00	5208.0	7.0 3.	ő 15 . 0	16.9	5.9 117.0	
9	2	5	3930.16	90.00	25800.0	83.0 0.	0 0.0	24.7	107.6 117.5	
10	-2	1	80297.00	G• 00	12100.0	31.3 3.	0 15.0	24.7	38.0 117.5	
11	11	. 6	6811.28	90.00	10600.0	82.1 0.	0 0.0	21.2	103.3 117.6	
12	-11	1	80877.00	0.00	5411.0	31.4 3.	0 15.0	21.2	34.6 117.6	
13	1	5	3926.76	90.00	2800.0	85.7 0.	0.0	20.2	105.9 117.9	
14	-1	1	78997.00	C. 00	2281.0	35.5 3.	0 15.0	20.2	37.7 117.9	
15	8	6	7393.12	90.00	10230.0	86.3 0.	0 0.0	14.1	100.3 118.0	
16	-8	1	80997.00	C•00	4330.0	36.7 3.	0 15.0	14.1	32.7 118.0	
17	18	6	6575.45	90.00	31600.0	78.8 0.	0.0	19.2	98.0 118.0	
18	-18	1	80297.00	0.00	12100.0	29.5 3.	0 15.0	19.2	30.7 118.0	

(c) Page 3. Figure A-3.- Concluded.

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	Ţ	MS								I	N	R		S	
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GB		ME							-	N I	i	Ċ	NN	NT	
HF.	F D.	UN					1			D N	O	N N	Ευ	DA	
Τņ	T =	MT		h,			В	PEN	Ε	B G	N	S	TB	BL	
		r	TAG	NLS	TĮĊ	FUR	23	APT A	VG SAL	13D 198	1 MAX	GN ATA	6-30G	NIGHT	CORRECTED

1 22036.00 J.00 15200.0 75.3 3.0 10.0 -2.2 60.1 60.1 -3 3 1644,42 90.00 2500.0 98.1 0.0 0.0 -2.2 95.9 95.9 22036.00 U.UU 15200.0 74.5 3.0 10.0 17.9 79.5 96.0 1624.42 90.00 2500.0 83.2 0.0 0.0 17.9 101.1 102.3 3 0.00 12300.0 79.4 3.0 10.0 23.9 90.3 102.5 22036.00 90.00 1800.0 91.8 0.0 0.0 23.9 115.7 115.9 B727 1709.04 0.00 12600.0 73.2 3.0 10.0 16.0 76.2 115.9 17 22036.00 1539.73 90.00 2100.0 B7.1 0.0 0.0 16.0 103.1 116.2 8 -17 1 22036.00 0.00 15200.0 76.7 3.0 10.0 16.9 80.6 116.2

(a) Page 1.

90.00 2600.0 89.8 0.0 0.0 16.9 106.7 116.6

0.00 35300.0 73.4 3.0 10.0 24.7 85.1 116.6

90.00 8400.0 82.7 0.0 0.0 24.7 107.4 117.1

Figure A-4. - 23-Airport, 1981 - standard takeoff, two-segment approach, SAM JT3D.



13	11	1	22036,00	0.00	12200.0	76.6	3.0	10.0	21.2	84.9	117.1	
14	-11	3	1769.64	90.00	2800.0	86.2	0.0	0.0	21.2	107.4	117.6	DC9
15	1	1	22036.00	U.00	3355.0	69.4	3.0	10.0	20.2	76.6	117.6	
16	-1	3	1404.70	90.00	1615.0	86.6	0.0	0.0	20.2	106.8	117.9	
¹ 17	8	1	22036.00	<u>0.00</u>	12300.0	78.8	<u>3.0</u>	10.0	14.1	79.9	117.9	
18	-8	3	1769.04	90.00	1800.0	81.0	0.0	0.0	14.1	95.1	117.9	
19	18	1	22036.00	0.00	43250.0	79.4	3.0	10.0	19.2	85.6	117.9	
20	-18	3	1769.04	90.00	8400.0	80.9	0.0	0.0	19.2	100.2	110.0	

ANALYSIS FOR CBSERVER AT (75309.00,

			·				and the Property of the Control and				Α				
		. :								S	Ţ	O P			
	Δ									H	E	E		S	
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GE	ΔY	MF							M:	Ī	Ī	Ö,	NN	NT	
HF: T.R	FP TT	UN MT		Ь		В	PFN		SD EB	N G	N.	N S	ED TB	DA BL	
			n I Au	NEST	TC F		A DT A		430	108	MAYG	 u	6-306	NITCHT	CORRECTED
		.!	CA CX	.U.C. 27.1	- 1 . Y.,	<u></u>		LV., 921			LIMA	mmr.r.o	9-30 0	(41.01)	CUNNERIEL
1	3	5	٤	385.	09	90.0	0 12462.	5 97	1 - 2	0.0	0.0	-2.2	94.9	94.9	

(b) Page 2. Figure A-4. - Continued.

5 7 6 5959.26	90.00 10230.0 89.9 0.0	0.0 23.9 113.8 115.0 3727
6 -7 1 69509.00	0.00 4330.0 39.7 3.0 1	5.0 23.9 45.6 115.0
7 17 6 7293.66	90.00 10300.0 80.4 0.0	0.0 16.0 96.4 115.1
8 -17 1 70559.00	0.00 3660.0 30.5 3.0 1	5.0 16.0 28.5 115.1
9 15 5 3385.09	90.00 12462.5 92.8 0.0	0.0 16.9 109, 7 116.2 DC8 SAM
10 -15 1 68339.00	0.00 5208.0 49.9 3.0 1	5.0 16.9 48.8 116.2
11 2 5 3366.97	90.00 25800.0 84.8 0.0	0.0 24.7 109.5 117.0
12 -2 1 68809.00	0.00 12100.0 33.7 3.0 1	5.0 24.7 40.3 117.0
13 11 6 5576.56	90.00 10600.0 84.7 0.0	0.0 21.2 105.9 117.4
14 -11 1 69389,00	0.00 5411.0 34.0 3.0 1	5.0 21.2 37.2 117.4
15 1 5 3271.47	90.00 2800.0 87.6 0.0	0.0 20.2 107.8 117.8
16 -1 1 67509.00	0.00 2281.0 38.0 3.0 1	5.0 20.2 40.2 117.8
17 8 6 5959.26	90.00 10230.0 88.9 0.0	0.0 14.1 103.0 118.0
18 -8 1 69509.00	0.00 4330.0 39.1 3.0 1	5.0 14.1 35.2 118.0
		0-0 19-2 99-8 118-0
20 -18 1 68809.00	0.00 12100.0 31.9 3.0 1	5.0 19.2 33.1 118.0

(c) Page 3.
Figure A-4.- Concluded.

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	Ą		. 		en e	/****** - · *	Н	T T E	0 P E	. :	Ş	-	
FN LU IM	C	MS AE XG IM	in an in the second	nimmanga ya — a naammanga -	r - hips - sairt a entant al se al Antonia de	BP	L	N U A T	T I	E P	U 		The second section of the second sections of the second section section sections of the second section section section sections section sectio
GB HE TR	FP	ME UN MT		В	PFN	AN SD EB	I N G	<u>I</u> , O N	0 N S	NN ED TB	NT DA BL		
			DIAGNOSTIC	FOR 23	ARPT AVG	SAM30	08 3 C	1981	MAXGW	ĀTĀ	6-30G	NIGHT	CORRECTED
1	3	1	17203. CO	0.00	15200.0	79.5	3.0	10.0	-2.2	64.3	64.3	• • • • • •	• • • • • • • • • • • • • • • • • • •
2	-3	3	1161.20	90.00	2500.0	102.3	0.0	0.0	-2.2	100.1	100.1	Company of the Service of the Servic	or a decimal lange.
3	4	1	17203.CO	0.00	15200.0	78.3	3.0	10.0	17.9	83.2	100.2		
4	4	3	1161.20	90.00	2500.0	86.6	0.0	0.0	17.9	104.5	105.9	THE THE PERSON NAMED IN	
5	20	1	17203.CO	0.00	12600.0	77.3	3.0	10.0	16.0	80.3	105.9		
6	-20	3	1118.50	90.00	2100.0	84.5	0.0	0.0	16.0	100.5	107.0	No contract of the	A CONTRACT OF STREET
7	15	1	17203.CO	0-00	15200.0	80.8	3.0	10.0	16.9	84.7	107.0		
8	-15	3	1161.20	90.00	2600.0	93.6	0.0	5.0	16.9	110.5	112.1	Dc8	SAM
9	2	1	17203.00	0.00	35300.0	76.2	3.0	10.0	24.7	87.9	112.1		
10	-2	3	1203. 86	90.00	8400.0	87.3	0.0	0.0	24.7	112.0]115.1	DC /c	er dangerhede er og er
11	6	1	17203.CO	0.00	12200.0	75.5	3.0	10.0	21.2	83.7	115.1	•	
12	-6	3	1203. 66	90.00	2800.0	86.1	0.0	0.0	21.2	107.3	115.7		

(a) Page 1.

Figure A-5. - 23-Airport, 1981 - standard takeoff, two-segment approach, SAM JT3D, SAM JT8D.

13	1	i -	17203.CO	0.00	3355.0	73.9	3.0	10.0	20.2	81.1	115.7	Market .
14	-1	2	947.44	90.00	1706.4	91.8	0.0	0.0	20.2	112.0	117.3	B747
15	8	ĩ	17203. CO	0.00	12300.0	82.6	3.0	10.0	24.3	93.9	117.3	* · · · · · · · · · · · · · · · · · · ·
16	-8	3	1203. 86	90.00	1800.0	84.3	0.0	0.0	24.3	108.7	117.8	
17	18	ī	17203.CO	0.00	43250.0	81.8	3.0	10.0	19.2	88.1	117.8	ente reside de region e latin a de e
18	-18	3	1203. 86	90.00	8400.0	85.5	0.0	0.0	19.2	104.7	118.1	

ANA	LYS	15	FOR OBSERVE	ER AT (74622.	00,		0.00)				
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			enter de la companya				S	T	P			· · · · · · · · · · · · · · · · · · ·	Lilean Line
	A						Н	E	E		S		
	1	MS					Ī	N	R		Ū		
=N : _U	C	AE XG	عبيني والرواد والما	منتيبية سمء ددد			E.	<u> </u>	- A				-
.U [M		IM				E BP	L	A T	1	E	ET PO		
8		ME				AN	1		<u></u>	NN	NT		
Œ	• • •	UN				SD	N	n n	N	ED	DA	·	
FR	TE	MT	Н	В	PFN	EB	G		S	TB	BL		
		i	DIAGNOSTIC	FOR 23	ARPT AVG	SAMS	D830	1981	MAXGV	ATA	6-3DG	NIGHT	CORRECTE
ì	3	5	3374.78	90.00	12600.0	97.7	0.0	0.0	-2.2	95.5	95.5		
2	-3	ī	67652.00	0.00	5100.0	37.9	3.0	15.0	-2.2	17.7	95.5	name (pari)	Company of the second
3	4	5	3374.78	90.00	12600.0	91.7	0.0	0.0	17.9	109.6	109.8	··· · · · · · · · · · · · · · · · · ·	
4	-4	i	67652.00	0.00	5100.0	35.0	3.0	15.0	17.9	34.9	109.8		a de la companya de l
5	20	6	7226.62	90.00	10300.0	80.9	0.0	0.0	16.0	96.9	110.0		
6	-20	ī	69872.00	0.00	3660.0	31.9	3.0	15.0	16.0	29.9	110.0		

(b) Page 2.
Figure A-5.- Continued.

7	15	5	3374.78	90.00	12600.0	93.6	0.0	0.0	16.9	110.5	113.2	DC 8	SAM
8	-15	1	67652.00	0.00	5208.0	50.1	3.0	15.0	16.9	49.0	113.2		*******
. 9	2	5	3333.29	90.00	25800•0	84.9	0.0	0.0	24.7	109.6	114.8		• • •
10	-2	ĩ	68122.00	0.00	12100.0	33.8	3.0	15.0	24.7	40.5	114.8		
11	6	6	5502.72	90.00	10600.0	83.1	0.0	0.0	21.2	104.3	115.2		
12	-6	1	68702.00	0.00	5411.0	44.5	3.0	15.0	21.2	47.7	115.2		₩ - ქ9
13	1	5	3232.28	90.00	2800.0	87.7	0.0	0.0	20.2	107.9	115.9	ers i ss only	The second of the second
14	-1	1	66822.00	0.00	2281.0	38.2	3.0	15.0	20.2	40.4	115.9		e maje e e
15	8	6	5873.51	90.00	10230.0	89.1	0.0	0.0	24.3	113.4	117.9	B727	SAM
16	-8	ì	68822.00	0.00	4330.0	39.3	3.0	15.0	24.3	45.6	117.9		
17	18	6	5563.02	90.00	31600.0	80.7	0.0	0.0	19.2	99.9	117.9	10 J	mundagak mak a ag
18	-18	1	68122.00	C. 00	12100.0	32.0	3.0	15.0	19.2	33.2	117.9	****	· · · · · · · · · · · · · · · · · · ·

(c) Page 3.

Figure A-5. - Concluded.

ANA	LYS	IS FO	R CBSERVER	AT (-17473	.00,		0.001			
								4 T	n-		
					- 4 12		Š	Ť	P		
	Δ						Н	E	E.		S
	Ţ	MS					1	N	R		U
FN	R	ΑĖ					F	U	A.		В
LU	Ċ	XG				F	Ĺ	Д	T	Ë	E T
TM	RT	IM				BP	D.	T	I	P	PO
GB	AY	ME				AN	1	I	0	NN	NT
HF.	FP	UN				SD	N	υ	N	ΕÜ	DA
TR	TF	MT	н	В	PFN	EB	G	14	S	TB	BL
			ACNOSTIC E	np 22	AUDT AV	C SAMA	ND ENR	n 1981	MAXGE	AT A	6=306

			- ".		- 2 1 1 1 1 m			and the second				
i	3	1	17573.00	0.00	15200.0	79.2	3.0	10.0	-2.2	64.0	04.0	
2	-3	3	1196.66	90.00	2500.0	101.9	0.0	0.0	-2.2	99.7	99.7	
3	4	1	17573.00	0.00	15200.0	78.0	3.0	10.0	17.9	82.9	99.8	in'.
4	-4	3	1196.66	90.00	2500.0	86.3	0.0	0.0	17.9	104.2	105.0	
-5	19	1	17573.00	0.00	13160.0	58.2	3.0	10.0	16.0	61.2	105.0	
6	-19	3	1150.75	90.00	2100.0	84.0	0.0	0.0	16.0	100.0	100.5	
7	. 15	1	17573.00	Ú. 0 0	15200.0	80.4	3.0	10.0	16.9	84.3	100.7	
8	-15	3	1196.66	90.00	2600.0	93.2	0.0	0.0	16.9	110.1	111.8	
9	2	1	17573.00	0.00	35300.0	76.0	3.0	10.0	24.7	87.7	111.8	i in all
10	-2	3	1242.53	90.00	8400.0	86.9	0.0	0.0	24.7	111.5	114.7	DC 10
11	12	1	17573.00	0.00	12750.0	69.8	3.0	10.0	21.2	7 E. U	114.7	
12	-12	3	1242.53	90.00	2800.0	82.7	0.0	0.0	21.2	103.9	115.0	

(a) Page 1.

Figure A-6.- 23-Airport, 1981 - standard takeoff, two-segment approach, SAM JT3D, RFN JT8D.



13 1 1 1/573.00 0.00 3355.0 73.5 3.0 10.0 20.2 d0.7 115.0

14 -1 3 976.94 90.00 1615.0 90.6 0.0 0.0 20.2 110.6 116.4

15 10 1 17573.00 0.00 12900.0 73.6 3.0 10.0 24.3 84.9 116.4

16 -10 3 1242.53 90.00 1800.0 87.9 0.0 0.0 24.3 112.2 117.8 B727 AFN

17 18 1 17573.00 0.00 43250.0 81.6 3.0 10.0 19.2 87.9 117.5

18 -18 3 1242.53 90.00 8400.0 85.1 0.0 0.0 19.2 104.3 110.0

ANALYSIS FOR CESERVER AT (59526.00, 0.00)

								A	n				
FN LU IM GP	C PT	MS AF XG TM MF				E BP AN	\$ H E L D	T E N U A T	P E R A T	E P NN	S B ET (14 NT		
HF TR		UN MT	H	B	PFN	SD EB	N G	D N	N S	ED TB	DA BL		
			TAGNESTIC	FOR 23	ARPT AVG	SAMS	DRFN	BD 1981	L MAX	W ATA	6-30G	NIGHT	CURRECTED
1	3	5	3148.20	90.00	12600.0	98.5	0.0	0.0	-2.2	90.3	90.3	•	
2	-3	1	52556.00	0.00	5100.0	42.6	3.0	15.0	-2.2	22.4	90.3		
3	4	5	3148.20	90.00	12600.0	92.3	0.0	0.0	17.9	110.2	110.4		
4	-4	1	52556.00	0.00	5100.0	39.3	3.0	15.0,	17.9	39.2	110.4		
5	19	6	7210.97	90.00	11000.0	69.7	0.0	0.0	L'S. O	85.7	110.4		
6	-19	1	54776.00	0.00	3660.0	28.5	3.0	15.0	10.0	۵6.5	110.4		

(b) Page 2. Figure A-6.- Continued.

ORIGINAL PAGE IS OF POOR QUALITY

7	15	5	3148.20	90,00	12600.0	94.3	0.0	0.0	16.9	111.2	113.3	DC8 SAM
. 8	-15	1	52556.00	0.00	5208.0	53.2	3.0	15.0	16.9	52.1	113.8	1
9	2	4	2858.55	90.00	27400.0	88.3	0.0	0.0	24.7	112.0	116.4	DCIO
10	- 2	1	53 026.00	0.00	12100.0	37.6	3.0	15.0	24.7	44.3	110.4	
11	12	5	6860.25	90.00	11300.0	73.6	U•0	0.0	21.2	94. ೮	110.5	
12	-12	1	53606.00	0.00	5370.0	43.7	3.0	15.0	21.2	46.9	110.5	
13	1	4,	3053.79	90.00	2800.0	88.8	0.0	0.0	20.2	109.0	117.2	
14	-1	1	51 726.00	U.00	2281.0	42.4	3.0	15.0	20.2	44.0	117.2	
15	10	5	5469.79	90.00	11200.0	84.7	0.0		24.3	109.3	117.8	
16	-10	1	53726.00	0.00	4330.0	56.0	3.0	15.0	24.3	62.3	117.8	
1,7	1.8	5	4397.47	90.00	33600.0	85.5	0.0	0.0	19.2	104.8	11a.0	
18	-18	1	53026.00	J.00	12100.0	35.8	3.0	15.0	19.2	37.1	118.0	

(c) Page 3.
Figure A-6.- Concluded.

ANA	LYS	IS F	FOR CUSERVE	R AT (-50454	.00,		0.00	1			
FN LU IM GB HE TR	С	AE XG IM ME UN	H	8	PFN	E BP AN SD	H I E L D I N	N U A T I	E K	ED	S U 3 ET PD NT DA BL	
		(DIAGNESTIC	FUR 23	AIRPORT	AVG	1981	BASE	MAXG	FAR	BDE G	NT.CUR.
1	1	1	50554.00	0.00	3355.0	54.5	3.0	10.0	20.2	61.7	61.7	
2	-1	3	2692.89	90.00	2305.0	85.8	0.0	0.0	20.2	106.0	106.0	
3	3	1	50554.00	0.00	14500.0	59.3	3.0	10.0	18.0	64.3	106.0	
4	- 3	2	2692.89	90.00	5100.0	94.5	0.0	0.0	18.0	112.4	113.3	B707
5	7	1	50554.00	0.00	12290.0	67.1	3.0	10.0	23.9	78.0	113.3	
6	-7	. 2	2652.89	90.00	4330.0	88.4	0.0	0.0	23.9	112.3	115.8	B727
7	17	1 .	50554.00	0.00	12460.0	60.1	3.0	10.0	16.0	63.1	115.8	
8	-17	2	2692.89	90.00	3660.0	82.3	0.0	0.0	16.0	98.3	115.9	e e e e e e e e e e e e e e e e e e e
9	14	1	50554.00	0.00	15200.0	62.1	3.0	10.0	16.9	66.1	115.9	
10	-14	2	2692.89	90.00	5208.0	94.8	0.0	0.0	16.9	111.7	117.3	
11	2	1	50554.00	0.00	35300.0	64.1	3.0	10.0	24.7	75.7	117.3	
12	-2	2	2652.89	90.00	12100.0	80.8	0.0	0.0	24.7	105.5	117.6	

(a) Page 1.

Figure A-7.- 23-Airport, 1981 - cutback takeoff, standard approach.

13	11	1	50554.00	0.00	12200.0	66.7	3.0	10.0	21.2	75.0	117.6	
		.*										
14	-11	2	2052.89	90.00	5411.0	85.4	0.0	0.0	21.2	106.6	117.9	
15	18	1	50554.00	0.00	43250.0	71.2	3.0	10.0	19.2	77.4	117.9	
16	-18	2	2692.89	90.00	12100.0	79.0	0.0	Ú.0	19.2	98.3	118.0	
			e di pirangan									
17	8	1	50554.00	0.00	12290.0	66.1	3.0	10.0	14.1	67.1	118.0	
18	- 8	2	2692.89	90.00	4330.0	83.2	0.0	0.0	14.1	97.3	118.0	
				, s								
A1. A	LYS	IS F	TE CBSERVER	AT (104630.	00,		0.00	,			
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	Δ						H.				S	
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LU	C	XG		-		_			A T	.	e T	n in the second of the second
IM	RT					. ₽P	D.	T	ī	D	P (1	
GB	AY					AN	ī	i	o.	NN	NT	
HE	FP					SD	N	ā	N	EO	DA	
ΤP	TE	MT	H	В	PFN	EB	G	N	S	TB	B ET PO NT DA BL	
		D	IAGNOSTIC F	OR 23	AIRPORT	AVG 1	981	BASE	MAXGW	FAR	BDEG	NT.COR.
1	1	5	4943.97	90.00	2800-0	82.7	0-0	0.0	20.2	102.9	102 0	
. •	. •		٤	,0.00	2000.0	02.,	•••	0.0	2012	102.	102.7	
				, seed								
2	-1	1	96830.00	0.00	2281.0	32.2	3.0	15.0	20.2	34.3	102.9	
3	3	5	4187.92	90.00	12080.0	94.9	0.0	0.0	18.0	112.9	113.3	3707
			ing the second of the second o					· Valoria				
4	-3	1	97660.00	0.00	5100.0	31.1	3.0	15.0	18.0	31.1	113.3	
5	7	5	5132.70	90-00	8060-0	87.8	0.0	0.0	23.9	111.7	115-6	
						-						
	_7	1	98830.00	0.00	4330.0	42 0	2 //	15.0	22 0	40.7	115 4	
6	7	ja k aja Janan	70030400	0.00				19.0	63.7	J 70 (113.0	
					(b)	Page 2	•					
				F	igure A-	7 Co	ntin	ued.				

7	17	- 5	8362.22	90.00	8330.0	75.7	0.0	0.0	16.0	91.7	115.6
8	-17	1	99880.00	0.00	3660.0	24.6	3.0	15.0	16.0	22.6	115.6
9	14	4	4172.07	90.00	11530.0	96.6	0.0	0.Q	16.9	113.5	1117.7 DC8
10	-14	1	97660.00	0.00	5208.0	1.3	3.0	15.0	16.9	0.2	117.7
11	2	5	4804.40	90.00	25800.0	80.4	0.0	0.0	24.7	105.1	117.9
12	-2	1	98130.00	0.00	12100.0	28.2	3.0	15.0	24.7	34.9	117.9
13	11	5	9534.43	90.00	9600.0	76.3	0.0	0.0	21.2	97.5	117.9
14	-11	1	98710.00	0.00	5411.0	28.0	3.0	15.0	21.2	31.2	117.9
15	18	6	8058.37	90.00	31600.0	76.4	0.0	0.0	19.2	95.7	118.0
16	-18	1	98130.00	0.00	12100.0	26.4	3.0	15.0	19.2	27.7	118.0
17	8	5	5152.70	90.00	8060.0	86.1	0.0	0.0	14.1	100.1	118.0
18	-8	1	98830.00	0.00	4330.0	33.75	3.0	15.0	14.1	29.6	118.0

(c) Page 3.
Figure A-7.- Concluded.

									1			
N F U () M F B /	R C RT AY	MS AE XG ME UN			The state of the s	E BP AN SD	S H I E L D I	A T T E N U	O P E R A T I O N	E P NN ED	S U B ET PO NT DA	
R 1	TE	MT	Н	8	PFN	EB	G	N	S 	TB	BL	
		Ĉ	IAGNOSTIC F	OR 23	AIRPORT	AVG I	BASE	1981	MAXG	FAR	5-3DEG	
1	7	1	26047.00	0.00	12290.0	76.9	3.0	10.0	23.9	87.8	87.8	
2 •	-7	3	2128.31	90.00	1800.0	89.1	0.0	0.0	23.9	113.0	113.1	B727
3	17	1	26047.00	0.00	12460.0	70.3	3.0	10.0	16.0	73.3	113.1	
4 -	17	3	1889.31	90.00	2100.0	84.5	0.0	0.0	16.0	100.5	113.3	1
5	2	1	26047.00	0.00	35300.0	71.6	3.0	10.0	24.7	83.2	113.3	
6 -	-2	3	2128.31	90.00	8400.0	79.9	0.0	0.0	24.7	104.5	113.8	
			26047.00									
			2128.31			i myli						
			26047.00	<u></u>								
			2128.31									
*:			26047.00									

(a) Page 1.

Figure A-8.- 23-Airport, 1981 - cutback takeoff, two-segment approach.

```
1 1 26047.00 0.00 3355.0 66.4 3.0 10.0 20.2 73.6 114.4
14 -1 3 1789.13 90.00 1615.0 83.9 0.0 0.0 20.2 104.1 114.8
15 14 1 26047.00 0.00 15200.0 72.8 3.0 10.0 16.9 76.7 114.8
16 -14 3 2008.86 90.00 2600.0 93.6 0.0 0.0 16.9 110.5 116.2
17 3 1 26047.00 0.00 14500.0 70.9 3.0 10.0 18.0 75.9 116.2
18 -3 3 2008.86 90.00 2500.0 95.4 0.0 0.0 18.0 113.4 118.0 B707
 ANALYSIS FOR OBSERVER AT ( 105334.00. 0.00)
                                                           S
    I MS
                                                           U
 FN
   R AE
                                                     E
 LU
   C XG
                                                          ET
    RT IM
                                  BP
                                          T
                                                          PO
                                     Ţ
 GB
   AY ME
                                  AN
                                          1
                                                    NN
                                                          NT
   FP UN
 HE
                                  SD
                                      N
                                                    ED
 TR TE MT
                         PFN
                                  EB
                                      G
        DIAGNOSTIC FOR 23 AIRPORT AVG BASE 1981 MAXGW FAR 6-3DEG
   7 5 5164.38 90.00 8060.0 87.7 0.0 0.0 23.9 111.6 111.6
 2 -7 1 99534.00 0.00 4330.0 33.7 3.0 15.0 23.9 39.6 111.6
 3 17 5 8414.15 90.00 8330.0 75.6 0.0 0.0 16.0 91.6 111.7
 4-17 1 100584.00 0.00 3660.0 24.5 3.C 15.0 16.0 22.5 111.7
 5 2 5 4838.92 90.00 25800.0 80.3 0.0 0.0 24.7 105.0 112.5
    -2 1 98834.00 0.00 12100.0 28.1 3.0 15.0 24.7 34.8 112.5
                            (b) Page 2.
```

Figure A-8. - Continued.

. 7	11	5	9598.24	9 Ć. 00	9600.0	76.2	0.0	0.0	21.2	97.4	112.7	
8	-11	-1	99414.00	0.00	5411.0	27.9	3.0	15.0	21.2	31.1	112.7	
9	8	5	5164.38	90.00	8060.0	86.0	0.0	0.0	14.1	100.0	112.9	
10	-8	1	99534.00	0.00	4330.0	33.4	3.0	15.0	14.1	29.5	112.9	
11	18	6	8116.91	90.00	31600.0	76.3	0.0	0.0	19.2	95.6	113.0	
12	-18	1	98834.00	0.00	12100.0	26.3	3.0	15.0	19.2	27.6	113.0	
13	1	5	4984.13	90.00	2800.0	82.6	0.0	0.0	20.2	102.8	113.4	e o process
14	-1	1	97534 • 00	0.00	2281.0	32.0	3.0	15.0	20.2	34.2	113.4	•
15	14	4	4200.32	90.00	11530.0	96.4	0.0	0.0	16.9	113.4	116.4	DC8
16	-14	1	98364.00	0.00	5208.0	1.1	3.0	15.0	16.9	-0.0	116.4	
17	3	5	4216.05	90.00	12080.0	94.8	0.0	0.0	18.0	112.8	117.9	B707
18	-3	1	98364.00	0.00	5100.0	31.C	3.0	15.0	18.0	31.0	117.9	

(c) Page 3. Figure A-8.- Concluded.

ANA	LYS	IS F	OR CBSERVE	R AT (-21905	.00,		0.00)			
FN LUIM GB HF	р С ВТ Му БР	MS AE XG IM ME UN MT		В	PFN	E BP AN SD EB	S H I F L D I N G	4 T T E N U A T I O N	0 P E R A T I U N S	t P NN Tu	8 E1 PU MT D4 BL	
			TAGNESTIC	FOR 23	AIRPORT	AVG	1981	SAM3D	MAXGW	EAK ₽	-30i6	
1	7	1	22005.00	0.00	12290.0	79.4	3.0	10.0	23.9	د.00	90.3	
2	-7	3	1,705.80	90.00	1800.0	91.9	U.0	0.0	23.9	115.5	115.8	B727
3	17	1	2∠005.00	0.00	12460.0	72.8	3.0	10.0	16.0	75 . o	115.3	•
4	-17	3	1537.03	90.00	2100.0	87.1	0.0	0.0	16.6	103.1	110.0	
5	2	1	22005.00	J.00	35300.0	73.5	3.0	10.0	24.7	₫ 5. i	110.0	
6	-2	3	1765.80	90.00	8400.0	82.8	0.0	0.0	24.1	107.4	116.0	
7	11	1	22005.00	0.00	12200.0	76.7	3.0	10.0	21.2	34.9	116.6	
8	-11	3	1705.80	90.00	2800.0	86.3	Ú.U	0.0	21.2	107.5	117.1	Dc9
ç	9	1	22005.00	0.00	12290.0	78.8	3.0	10.0	14.1	79.9	117.1	
10	-8	3	1705.80	90.00	1800.0	81.0	0.0	0.0	14.1) 5.⊥	117.1	
11	18	1	22005.00	0.00	43250.0	79.4	3.0	10.0	19.2	გ 5∙ ¢	117.1	
12	-i e	3 ,	1705.80	90.00	8400.0	81.0	0.0	0.0	19.2	100,2	117.2	
					(a) Pa	age 1.						

Figure A-9.- 23-Airport, 1981 - cutback takeoff, two-segment approach, SAM JT3D.

ANA	YS	IS FOR	CBSERVE	AT (80070.0	0,	0.0	0)		
							Α.			
						• • • • • • • • • • • • • • • • • • •	Ť	ŋ		
							S T	P		
	Δ						H F	F		S
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1.0	٠,٢	XG				F	L A	Ť	Ė	ET
JM	RT	IM		s and the same of		ВР	D T	1	ρ	PU
G.P	ΔY	ME				AN	I I	0	NN	NT
HF	FP	UN			D.C.A.		N U	N	ED To	DA Bi
TR	TE	MT	H	В	PFN	F8	G N	s	TB	BL

DIAGNESTIC FOR 23 AIRPORT AVG 1981 SAM3D MAXGW FAR 6-3DEG

(b) Page 2. Figure A-9.- Continued.

4-17 1 75320.00 0.00 3660.0 29.4 3.0 15.0 16.0 27.4 114.8 5 2 5 3600.37 90.00 25800.0 84.0 0.0 0.0 24.7 108.7 115.7 6 -2 1 73570.00 0.00 12100.0 32.6 3.0 15.0 24.7 39.3 115.7 7 11 5 7368.50 90.00 9600.0 79.9 0.0 0.0 21.2 101.2 115.9 8 -11 1 74150.00 0.00 5411.0 32.9 3.0 15.0 21.2 36.1 115.9 8 5 4027.15 90.00 8060.0 89.0 0.0 0.0 14.1 103.1 116.1 10 -8 1 74270.00 0.00 4330.0 38.1 3.0 15.0 14.1 34.1 116.1 11 18 6 6016.05 90.00 31600.0 79.8 0.0 0.0 19.2 99.0 116.2 12 -18 1 73570.00 0.00 12100.0 30.8 3.0 15.0 19.2 32.1 116.2 1 5 3543.04 90.00 2800.0 86.7 0.0 0.0 20.2 106.9 116.7 -1 1 72270.00 0.00 2281.0 36.9 3.0 15.0 20, 39.1 116.7 15 15 4 3186.44 90.00 11530.0 91.7 0.0 0.0 16.9 108.6 11/.3 16 -15 1 73100.00 0.00 5208.0 49.1 3.0 15.0 16.9 48.0 117.5 3 5 3206.57 90.00 12080.0 98.4 0.0 0.0 -2.2 96.2 117.3 17 -3 1 73100.00 0.00 5100.0 36.5 3.0 15.0 -2.2 16.3 117.3 4 5 3206.57 90.00 12080.0 91.6 0.0 0.0 17.9 109.6 11d.0 8707 SAM -4 1 73100.00 0.00 5100.0 33.7 3.0 15.0 17.9 33.6 118.J

(c) Page 3. Figure A-9.- Concluded.

N A	LYS	15 F	OR CBSERVE	RAT (-17118	•00,		0.00	•			
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	I	MS	· · · · · · · · · · · · · · · · · · ·	e de la composition della comp	***		Ī	N	P,		<u>S</u>	***************************************
Ų.	þ	AE					Ε	Ü	A		В	
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2	ΔY					AN	I	Ī	Ō	NH	NT	
F	FP			В —		<u>SD</u>	N	<u></u>	<u></u>	ED	<u>UA</u> BL	
? 	TF 	MT	h 	В 	PFN	EB	G 			Tb	BL	
	٠,		AGNESTIC	FOR 23	AIRPORT	AVG	1981	SAM 4	A OB 3O	AXLIN E	18 6-1	DEG
											-	
L	20	1	17218.00	0.00	12460.0	77.0	3.0	10.0	16.C	80.0	<u> </u>	
2 .	-20	3	1119.81	90.00	2100.0	84.5	0.0	0.0.	16.0	100.5	100.5	
3	Z	1	17218.00	0.00	35300.0	76.2	3.0	10.0	24.7	87.9	ron• p	
				en e								•
4	-2,	3	1205.42	90.00	8400.0	87.3	0.0	0.0	24.7	111.9	112.3	DCJO
				f.								
5	6	1	17218.00	0.00	12200.0	. 75 <u>.5</u>	3.0	10.0	21.2	83.7	12.3	***********
				7								
5	-6	3	1205.42	90.00	2800.0	86.1	0.0	0.0	21.2	<u>ز د 10</u> 7	113.5	
				agger in the				4.00				
7	8	1	17218.00	0.00	12290.0	82.6	3.0	10.0	24.3	93.9	13.5	
				_								
8 -	- 8	3	1205.42	90.00	1800.0	84.3	0.0	0.0	24.4	108.6	14.7	
			7.7.7.									
	10	•	17218.00	0.00	4325D O	010	2 N	10. 1	10.2	10.1		
,	10		11210.00	0.00	43270 . 0	01.0	3.0	10.0	19.2	00.1	.13.1	
		2	1205.42	00.410		05.5		0.3	10.5			
	-10	2	1209.42	30.00	8400.0	32.2	0.0	<u>. v. v</u> .	19.2	104.7	115.2	
				•						ilia di Karani. Karani		
ľ	1	1	17218.00	0.00	3355.0	73.8	3.0	10.0	20.2	81.0	115.2	
?	-1	22	948.22	90.00	1696.4	91.7	0.0	0.0	20.2	111.9	16.8	B747
		•										
3	15	1	17218.00	0.00	15200.0	80.8	3.0	10.0	16.9	84.7	116.6	***************************************
										i garajaja jarity.		
4	-15	3 .	1162.64	90.00	2600.0	93.6	0.0	0.0	16.9	110.5	117.7	DC8 SA
						(a) Pa	ige 1					

Figure A-10- 23-Airport, 1981 - cutback takeoff, two-segment approach, SAM JT3D, SAM JT8D.

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C-2

15 3 1 17218.00 0.00 14500.0 78.1 3.0 10.0 -2.2 62.9 117.7

16 -3 3 1162.64 90.00 2500.0 102.3 0.0 0.0 -2.2 100.1 117.8

17 4 1 17218.00 0.00 14500.0 76.3 3.0 10.0 17.9 81.2 117.8

18 -4 3 1162.64 90.00 2500.0 86.6 0.0 0.0 17.9 104.5 118.0

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[M	RT	XG				E BP	<u> </u>			<u>E</u>	<u> </u>	
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									30000	15700		
1	20	5	6130.84	90.00	8330.0	80.1	0.0	0.0	16.0	96.1	96.1	
2	-20	1	69628.00	0-00	3660.0	31.9	3.0	15.0	16-0	24.4	96.1	
Ŧ.			Yo. F . Y. M. M. M	44.04 Application								
_	_									7.4		
3,	2	5	3321.33	90.00	25800.0	85.0	0.0	0.0	24.7	109.6	109.3	وهرس والمشكوب
4	-2	1	67878.00	0.00	12100.0	33.9	3.0	15.0	24.7	40.5	109.8	
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2	Ė	3_	6792.63	30.00	9600.0	79.3	0.0	0.0	21.2	100.5	110.3	
								W 70 - 1				
6	-6	1	68458-00	0.00	5411.0	44.5	3.0	15.0	21.2	47.8	110.3	<u> </u>
	-											
7	(a)	_	2770 02	e a 00	2060 0	90 4	0:0	0.0	24 3	1112 0	1116 6	B727 SA
	•		3110.93	30.00	8000.0	09.0	0.0	<u> </u>		113.9	147,03	0 /2 / SA
8	-8	1	68578.00	0.00	4330.0	39.3	3.0	15.0	24.3	45.7	115.5	

(b) Page 2.
Figure A-10.- Continued.

9	18	6_	5542.73	90.00 3	1600.0	80.7	0.0	0.0	19.2	100.0	ه.د 11	
								*				
10	-18	1	67678.00	0.00 1	2100.0	32.1	3.0	15.0	19.2	33.3	115.0	
11	1 L	5	3218.36	50.00	2800.0	87.8	0.0	0.0	20.2	107.9	110.3	
											in de la companya di salah salah Salah salah sa	
12	- 1	1	66578.00	0.00	2281.0	38.3	3.0	15.0	20.2	40.5	110.3	
13	15	4	2958.01	90.00 1	1530.0	92.5	0.0	U•U	16.9	109.4	117.1	
										· .		
1.4	-15	_1_	67468.00	0.00	5208.0	50.1	3.0	15.0	16.9	49.0	117.1	
		_										
ř	3_		2979.14	90.00 1	2080.0	99.3	0.0	0.0	-2.2	97.1	117.1	
		•	17160 00	0.00	51 00 0	20.0	2 43	15.0				
10	- 3		67468.00	0.00	2100.0	38.0	3.0	15.0	-2.2	17.8	117.1	
		-	222	50 40 4	. 202 4							
î Î	4	2.	27/9-14	30.00 1	2080.0	92.3	0.0	0.0	17.9	110.3	117.9	B707 5AM
1.8	- 4	1	67468.00	0 - 00	5100.0	45.1	3.0	15 0	170	25	117.5	
			-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				200	1700	4107	J 40	L L ! . 7	

(c) Page 3.
Figure A-10.- Concluded.

(a) Page 1.

1800.0 87.9 0.0 0.0 24.3 112.2 117.8 B727 RFN

Figure A-11. - 23-Airport, 1981 - cutback takeoff, two-segment approach, SAM JT3D, RFN JT8D.

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1242.11

15	12	1	17569.00	0.00	12750.0	69.8	3.0	10.0	21.2	78.0	117.8
16	-12	3	1242.11	90.00	2800.0	82.7	0.0	0.0	21.2	103.9	117.9
17	19	1	17569.00	0.00	13160.0	58.2	3.0	10.0	16.0	61.2	117.9
13	-19	3	1150.40	90.00	2100.0	84.0	0.0	0.0	16.0	100.0	118.0

	ANA	LYS	IS F	OR UBSERV	ER AT (67544	.00,		0.001)			i i i i i i i i i i i i i i i i i i i
ı	=N LU IM	R C	MS AE XG IM				E BP	\$ H I E L	A T T E N U A	0 P E R A T	E	S U B ET PO	
į	JB HE	AY	ME	i dia kangangan Tanggaran	В	PFN	AN SD EB	I N G	I	N S	NN ED TB	NT DA BL	
-			(IAGNOSTIC	FOR 23	AIRPORT	AVG	1981	SAM3D	R8D	MAXGW	FAR 6-3	DEG
	1	2	4	3040.46	90.00	27400.0	87.6	0.0	0.0	24.7	112.2	112.2	DC/C
	2	-2	1	61044.00	0.00	12100.0	35.5	3.0	15.0	24.7	42.1	112.2	
	3	18	6	4974.45	90.00	31600.0	82.0	0.0	0.0	19.2	101.2	112.6	
	4	-18	1	61044.00	0.00	12100.0	33.7	3.0	15.0	19.2	34.9	112.6	
	5	1	4	3141.95	90.00	2800.0	88.5	0.0	0.0	20.2	108.7	114.1	
	ó	-1	1	59744.00	0.00	2281.0	40.0	3.0	15.0	20.2	42.2	114.1	
	7	15	4	2683.74	90.00	11530.0	93.5	0.0	0.0	16.9	110.4	115.6	

(b) Page 2.

90-00 12080-0 100-5 0-0 0-0

0.00 5208.0 51.4 3.0 15.0 16.9 50.4 115.6

Figure A-11. - Continued.

10	-3	1	60574.00	0.00	5100.0	40.0	3.0	15.0	-2.2	19.8	115.7	
11	4	5	2706-07	90.00	12080.0	93.2	0.0	0.0	17.9	111.2	117.0	B707 SAM
12	-4	1	60574.00	0.00	5100.0	36.9	3.0	15-0	17.9	36.8	117.0	
13	10	5	3715.95	90.00	8230.0	86.7	0.0	0.0	24.3	111.0	118.0	
14	-10	ı	61744.00	0.00	4330.0	54.5	3.0	15.0	24.3	60.8	118.0	
15	12	5	6017.86	90.00	9600.0	73.2	0.0	0.0	21.2	94.5	118.0	
16	-12	1	61624.00	0.00	5370.0	42.1	3.0	15.0	21.2	45.3	118.0	
17	19	5	5846-26	90.00	8390•0	72.4	0.0	0.0	16.0	88.4	118.0	
18	-19	1	62794-00	0.00	3660.0	26.2	3.0	15.0	16.0	24.2	118.0	

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(c) Page 3.
Figure A-ll.- Concluded.

A T O S T P H E E S S I N R U H E E S S I N R A B B B D D T I P P D D D D D D D D D D D D D D D D D					•	0.00		00,	-50752.	R AT (OR CUSERVE	IS F	LYS	ANA
1 3 1 50852.00 0.00 15200.0 61.0 3.0 10.0 17.4 65.5 05.5			B ET PU NT DA	NN ED	P E R A T I O N	T T E N U A T	H I E L D I	AN SD	PFN			XG IM MF UN	I R C RT AY FP	LU IM GP HF
	3 D6	AT	MAXGM	RECTED	HT COP	7 NIG	198	BASE	ARPT AVG	FOR 23	IAGNUSTIC	٦		
2 -3 2 2708.49 90.00 5100.0 94.4 0.0 0.0 17.4 111.8 111.8 B707			02.5	65.5	17.4	10.0	3.0	61.C	15200.0	0.00	50852.00	1	3	1
医乳腺 化氯化物 机大型电影 化自己电影 医克尔特氏 医电影 医二氏性 电超频 医二氏线性皮肤 化二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	07	87	111.8	111.8	17.4	0.0	0.0	94.4	5100.0	90.00	2708.49	2	-3	2
3 7 1 50852.00 0.00 12300.0 67.0 3.0 10.0 23.5 77.5 111.8		1 11 - 1-3	111.8	17.5	23.5	10.0	3.0	67.0	12300.0	0.00	50852.00	1	7.	3
4 -7 2 2708.49 90.00 4330.0 88.3 0.0 0.0 23.5 111.8 114.8 B727	١7	B7	114.8	111.8	23.5	0.0	0.0	38.3	4330.0	90.00	2708.49	2	- 7	4
5 17 1 50852.00 0.00 12600.0 60.4 3.0 10.0 15.9 63.3 114.8			114.8	63.3	15.9	10.0	3.0	60.4	12600.0	J. 00	50852.00	1	17	.5
6 -17 2 2768.49 90.00 3660.0 82.2 0.0 0.0 15.9 98.1 114.9			114.9	98.1	15.9	0.0	0.0	82.2	3660.0	90.00	2768.49	2	-17	6
7 14 1 50852.00 0.00 15200.0 62.0 3.0 10.0 17.4 66.4 114.9			114.9	66.4	17.4	10.0	3.0	62.0	15200.0	Ů . 00	50852.00	1	14	7
8-14 2 2708.49 90.00 5208.0 94.7 0.0 0.0 17.4 112.1 116.1 DC8	8	Do	116.1	112.1	17.4	0.0	0.0	94.7	5208.0	90.00	2708.49	2	-14	8
9 2 1 50852.00 0.00 35300.0 64.0 3.0 10.0 25.9 76.9 116.7			116.7	76.9	25.9	10.0	3.0	64.0	35300.0	0.00	50852.00	1	2	ò
10 -2 2 2708.49 90.00 12100.0 80.8 0.0 0.0 25.9 106.7 117.1			117.1	106.7	25.9	0.0	U .O	8.08	12100.0	90.00	2708.49	2	-2	10
11 11 1 50852.00 0.00 12200.0 66.7 3.0 10.0 21.1 74.8 117.1			117.1	74.8	21.1	10.0	3.0	66.7	12200.0	0.00	50852.00	1	11	11
12 -11 2 2708.49 90.00 5411.0 85.3 0.0 0.0 21.1 106.4 117.5 (a) Page 1.			117.5	106.4	21.1	0.0				90.00	2708.49	. 2	-11	12

Figure A-12.- 23-Airport, 1987 - standard takeoff, standard approach.

13	1	1	50852.00	U.00	3355.0	54.4 3.0	10.0	21.6	63.0	117.5
14	-1	3	2708.49	90.00	2305.0	85.7 0.0	0.0	21.6	107.3	117.9
15	8	1	50852.00	0.00	12300.0	66.0 3.0	10.0	14.9	67.9	117.9
16	-8	2	2768.49	90.00	4330.0	83.2 0.0	0.0	14.9	98.1	117.9
17	18	1	50852.00	0.00	43250.0	71.1 3.0	10.0	21.4	75.6	117.9
18	-18	2	2708.49	90.00	12100.0	79.0 0.0	0.0	21.4	100.4	118.0

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	GB		ME								AN	I	I		0	NN	 NT	1
	HE		UN						وسود		SD	N	0		N	ED	DA	
7	TR	TF	MT		Н			3	PFN		EB	G	N		S	ТВ	BL	

DIAGNOSTIC FOR 23 ARPT AVG BASE 1987 NIGHT CORRECTED MAXGW ATA 3DG

1	3	6	4136.02	90.00	12300.0	94.0	0.0	0.0	17.4	111.4	111.4	B707
2	-3	1	81118.00	0.00	5100.0	34.6	3.0	15.0	17.4	34.0	111.4	
3	7	6	7554.25	90.00	10230.0	87.0	0.0	0.0	23.5	110.5	114.0	
4	-7	1	82268.00	ů . 00	4330.0	36.9	3.0	15.0	23.5	42.4	114.0	
5	17	6	8540.67	90.00	10300.0	78.2	0.0	0.0	15.9	94.1	114.1	
6	-17	1	83358.00	0.00	3660.0	27.7	3.0	15.0	15.9	25.5	114-1	
					(b)	Page 2	2.					

Figure A-12. - Continued.

7	14	6	4136.02	90.00	12300.0	95.8 0.0	0.0	17.4 113.1 116.6 DC8	
8	-14	l	81118.00	0.00	5208.0	6.6 3.0	15.0	17.4 5.9 116.6	
G	2	5	3993.45	90.00	25800.0	82.8 0.0	0.0	25.9 108.7 117.3	
10	- 2	1	81588.00	0.00	12100.0	31.1 3.0	15.0	25.9 39.0 117.3	
11	11	6	6950.03	90.00	10600.0	81.9 0.0	0.0	21.1 103.0 117.4	
12	-11	1	82168.00	0.0 0	5411.0	31.1 3.0	15.0	21.1 34.2 117.4	
13	1	5	4000.40	90.00	2800.0	85.5 0.0	0.0	21.6 107.1 117.8	
14	-1	1	80288.00	0.00	2281.0	35.2 3.0	15.0	21.6 38.8 117.8	
15	8	6	7554.25	90.00	10230.0	86.0 0.0	0.0	14.9 101.0 117.9	
16	- 8	1	82288.00	0.00	4330.0	36.4 3.0	15.0	14.9 33.4 117.9	
17	18	6	6682.80	90.00	51600.0	78.6 0.0	0.0	21.4 100.0 118.0	
18	-18	1	81588.00	0.00	12100.0	29.3 3.0	15.0	21.4 32.7 118.0	

(c) Page 3.
Figure A-12.- Concluded.

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LU	Ç	XG				E	L	4	т Т	E	FT
IM	P.T	IM				BP	D	T	Ī	$\bar{\mathbf{p}}$	PO
GB	ΔΥ	MF				AN	I	1	Ô	NN	NT
HF	FP					SD	N	n	N	FD	DΔ
TP	TE		H	В	PEN	ЕB	G	N	S	TB	BL

DIAGNUSTIC FOR 23 ARPT AVG BASE 1987 MAXGW ATA 6-3DG NT. COR.

1	3	1	25981.00	0.00	15200.0	72.5	3.0	10.0	17.4	76.9	75.9	
2	-3	3	2002.53	90.00	2500.0	95.5	0.0	0.0	17.4	112.9	112.9	B707
3	7	1	25981.00	0.00	12300.0	76.9	3.0	10.0	23.5	87.4	112.9	
4	-7	3	2121.41	90.00	1800.0	89.2	0.0	0.0	23.5	112.7	115.8	E727
5	17	1	25981.00	0.00	12600.0	70.7	3.0	10.0	15.9	73.5	115.8	
6	-17	3	1883.56	90.00	2100.0	84.5	0.0	0.0	15.9	100.4	115.9	
7	14	. 1	25981.00	0. 00	15200.0	72.8	3.0	10.0	17.4	17.2	116.0	
8	-14	3	2002.53	90.00	2600.0	93.6	0.0	0.0	17.4	111.0	117.2	
9	2	1	25981.00	0.00	35300.0	71.6	3.0	10.0	25.9	84.5	117.2	
10	-2	3	2121.41	90.00	8400.0	79.9	0.0	0.0	25.9	105.8	117.5	
11	11	1	25981.00	0.00	12200.0	74.7	3.0	10.0	21.1	82.8	117.5	
12	-11	3	2121.41	90.00	2800.0	83.4	0.0	0.0	21.1	104.5	117.7	
					(a)	Page 1	L					

Figure A-13.- 23-Airport, 1987 - standard takeoff, two-segment approach.

13	1	1	25981.00	0.00	3355.0	66.5	3.0	10.0	21.6	75.1	117.7
14	-1	3	1762.81	90.00	1615.0	84.0	0.0	U.O	21.6	105.5	117.9
15	8	1	25981.00	0.00	12300.0	76.3	3.0	10.0	14.9	78.2	117.9
16	-8	3	2121.41	90.00	1800.0	79.0	0.0	0.0	14.9	94.ŭ	118.0
17	18	1	25981.00	0.00	43250.0	77.8	3.0	10.0	21.4	86.2	118.0
18	-18	3	2121.41	50.00	8400.0	78.1	0.0	0.0	21.4	99.5	118.0

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en.	I	MS				Ī	N R		U
FN LU	R C	XG				E L	A T	E	ET
I M GB	RT AY	IM ME				BP D	I O	P NN	PO NT
HE TR	FP TE	UN MT	H	В		SD N EB G	O N N S	ED T(3	DA BL

DIAGNESTIC FUR 23 ARPT AVG BASE 1987 MAXGW ATA 6-3DG NT. COR.

1 3 6 4146.71 90.00 12300.0 94.0 0.0 0.0 17.4 111.4 111.4 B707

2 -3 1 81254.00 0.00 5100.0 34.5 3.0 15.0 17.4 34.0 111.4

3 7 6 7576.22 90.00 10230.0 87.0 0.0 0.0 23.5 110.5 114.0

4 -7 1 82464.00 0.00 4330.0 36.8 3.0 15.0 23.5 42.3 114.0

5 17 6 8557.84 90.00 10300.0 78.2 0.0 0.0 15.9 94.1 114.0

(b) Page 2.

Figure A-13. - Continued.

6	-17	1	83514.00	0.00	3660.0	27.6 3.0	15.0	15.9	25.5 114.0	
7	14	6	4146.71	90.00	12300.0	95.7 0.0	0.0	17.4	113.1 116.6	DC8
8	-14	1	81254.00	0.00	5208.0	6.5 3.0	15.0	17.4	5.9 116.6	
9	2	5	4002.08	90.00	25800.0	82.7 0.0	0.0	25.9	108.7 117.2	
10	-2	1	81764.00	0.00	12100.0	31.0 3.0	15.0	25.9	38.9 117.2	
11	11	6	6 968.95	90.00	10600.0	81.8 0.0	0.0	21.1	102.9 117.4	
12	-11	1	82344.00	0.00	5411.0	31.1 3.0	15.0	21.1	34.2 117.4	
13	1	5	4010.44	90.00	2800.0	85.4 0.0	0.0	21.6	107.0 117.8	
14	-1	1	80464.00	0.00	2281.0	35.2 3.0	15.0	21.6	38.8 117.8	
15	8	6	7576.22	90.00	10230.0	86.0 0.0	0.0	14.9	100.9 117.9	
16	-8	1	82464.00	0.00	4330.0	36.4 3.0	15.0	14.9	33.3 117.9	
17	18	6	6697.44	90.00	31600.0	78.5 0.0	0.0	21.4	100.0 117.9	
18	-18	1	81764.00	0.00	12100.0	29.2 3.0	15.0	21.4	32.7 117.9	

ORIGINAL PAGE IS OF POOR QUALITY

(c) Page 3. Figure A-13.- Concluded.

S T P A H E E S I MS I N R U FN R AE E U A B LU C XG E L A T E ET IM RT IM BP D T I P PO GB AY ME AN I I O NN NT HE FP UN SD N O N ED DA TR TE MT H B PFN EB G N S TB BL		er opie zag pik i		A					A	0			
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7 17 1 22216.00 0.00 12600.0 73.0 3.0 10.0 15.9 75.9 115.5 8 -17 3 1555.42 90.00 2100.0 87.0 0.0 0.0 15.9 102.8 115.7 9 15 1 22216.00 0.00 15200.0 76.6 3.0 10.0 17.4 81.0 115.7 10 -15 3 1641.67 90.00 2600.0 89.7 0.0 0.0 17.4 107.0 116.3 11 2 1 22216.00 0.00 35300.0 73.4 3.0 10.0 25.9 86.3 116.3								_					
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8 -17 3 1555.42 90.00 2100.0 87.0 0.0 0.0 15.9 102.8 115.7 9 15 1 22216.00 0.00 15200.0 76.6 3.0 10.0 17.4 81.0 115.7 10 -15 3 1641.67 90.00 2600.0 89.7 0.0 0.0 17.4 107.0 116.3 11 2 1 22216.00 0.00 35300.0 73.4 3.0 10.0 25.9 86.3 116.3	Ü		,	1727.00	90.00	1000.0	74.1	0.0	0.0	23.3	11705	11707	0121
8 -17 3 1555.42 90.00 2100.0 87.0 0.0 0.0 15.9 102.8 115.7 9 15 1 22216.00 0.00 15200.0 76.6 3.0 10.0 17.4 81.0 115.7 10 -15 3 1641.67 90.00 2600.0 89.7 0.0 0.0 17.4 107.0 116.3 11 2 1 22216.00 0.00 35300.0 73.4 3.0 10.0 25.9 86.3 116.3	٠_												
9 15 1 22216.00	7	17	1	22216.00	0.00	12600.0	73.0	3.0	10.0	15.9	75.9	115.5	
9 15 1 22216.00	4	1											and the second
10 -15 3 1641.67 90.00 2600.0 89.7 0.0 0.0 17.4 107.0 116.3 11 2 1 22216.00 0.00 35300.0 73.4 3.0 10.0 25.9 86.3 116.3	8	-17	3	1555.42	90.00	2100.0	87.0	0.0	0.0	15.9	102.8	115.7	
10 -15 3 1641.67 90.00 2600.0 89.7 0.0 0.0 17.4 107.0 116.3 11 2 1 22216.00 0.00 35300.0 73.4 3.0 10.0 25.9 86.3 116.3												•	
10 -15 3 1641.67 90.00 2600.0 89.7 0.0 0.0 17.4 107.0 116.3 11 2 1 22216.00 0.00 35300.0 73.4 3.0 10.0 25.9 86.3 116.3	9	1.5	1	22216.00	0.00	15200.0	76.6	3.0	10.0	17.4	81.0	115.7	programme and the second
11 2 1 22216.00 0.00 35300.0 73.4 3.0 10.0 25.9 86.3 116.3													
11 2 1 22216.00 0.00 35300.0 73.4 3.0 10.0 25.9 86.3 116.3	10	15	3	1641-67	90.00	2600.0	86.7	0.0	0.0	17.4	107.0	116 2	
	•.0	• •	_		7000	200000	J /• ,	0.0	7.00		101.0	110.5	
				2221		25000 0							
12 -2 3 1727 86 G0 00 8400 0 82 4 0 0 0 0 25 9 108 5 114 9 <i>NA I</i>	TI	2	1	22216.00	0.00	35300.0	13.4	3.0	10.0	25.9	86.3	116.3	
12 -2 3 1727 86 90 00 8400 0 82 4 0 0 0 0 25 9 108 5 114 9 107 10										4.3			
12 2 3 1/2/100 90000 040000 0210 010 010 2519 10015 11019 0070	12	-2	3	1727.86	90.00	8400.0	82.6	0.0	0.0	25.9	108.5	116.9	DC 10
13 11 1 22216.00 0.00 12200.0 76.5 3.0 10.0 21.1 84.7 116.9	13	-11	<u>i</u>	22216.00	0.00	12200.0	76.5	3.0	10.0	21.1	84.7	116.9	
en de la financia de la seguinte de la cintra de la financia de la financia de la cintra de la cintra de la fi La cintra de la financia de la cintra de la c													
14 -11 3 1727.86 90.00 2800.0 86.1 0.0 0.0 21.1 107.2 117.4	14	-11	3	1727.86	90.00	2800.0	86.1	0.0	0.0	21.1	107.2	117.4	
어느 전 그는 전쟁 경우 사람들이 생각하는 경기를 하는 생활을 보고 있다.	- 7.5										. .		

(a) Page 1.

Figure A-14. - 23-Airport, 1987 - standard takeoff, two-segment approach, SAM JT3D.



15	T	1	22216.00	0.00	3355.0	69.3	3.0	10.0	21.6	77.9	117.4	
16		<u>_</u>	1421.95	90.00	1615.0	04 5			21 4	100 1	117 0	
•	•		2451.32	20.00	101540	86.5	0.0	0.0	21.0	100.1	111.99	
17	Я		22216.00	0.00	12300 0	79 7	3.0	10 0	14 0	90 4	1170	
•		•	22210.00	0.00	12300.0	10.1	3.0	.10.0	74.2	80.0	11.6.9	
1 4	_ 0	-3	1727.86		1000 0	90.0	<u> </u>		14.0	65.0		
10	- 0		1/2/.80	90,00	1900.0	80.9	0.0	0.0	14.7	95.9	117.9	Ass.
19	18		22216.00	0.00	/2250 O	70.5		10 0				
17	TO		22216.00	0.00	43230.0	19.5	3.0	10.0	21.4	87.7	117.9	
-									· · · · · · · · · · · · · · · · · · ·	ن سونو ب		
20 .	-19	3	1727.86	90.00	8400.0	80.8	0.0	0.0	21.4	102.2	118.0	
ANA	LYS	IS F	OR CBSERVE	TA S	76041.	00,		0.00	<u> </u>	· - · · · · · · · · · · · · · · · · · ·		
			and the same of the state of the same of t	**************************************		·		<u> </u>	0			
							S	Ť	P			
	A						<u> </u>	E	E.R		<u>S</u>	New - No ophical and Market and American
	R	AE					Ė	Ü	A		8	
LU.		XG	NOTES THE STATE OF THE BOOKS AND ADDRESS.	~ ***********		E	L D		<u>T</u>		<u> </u>	
GB	AY	ME				AN	I	Ĭ	Ö	· P NN	PO NT,	
HE .	FP	MT			PFN	SD	Ň.	<u>Ö</u>		ED	DA .	
			n 			EB		N	S 	TB	BL	
		0	TAGNESTIC F	OR 23	APT AVG	SAM3D	198	7 MAXG	W ATA	6-3DG	NIGH	T CORRECTE
						•						
1	3	6	3404.77	90.00	12300.0	96.5	0.0	0.0	0.8	97.3	97.3	
2	-3	. 1_	69071.00	0.00	5100.0	37.6	3.0	15.0	0.8	20.3	97.3	# ** ************************
3	4	6	3404.77	90.00	12300.0	90.2	0.0	0.0	17.3	107.6	108.0	
4 .	-4	_1_	69071.00	0.00	5100.0	34.7	3.0	15.0	17.3	34.0	108.0	
									* .			
5	7	6	6050.62	90.00	10230.0	89.7	0.0	0.0	23.5	113.2	114.3	B727
						më T						
_6	-7	1	70241.00	0.00	4330.0	39.5	3.0	15.0	23.5	45.0	114.3	
7	17	6	7365.09	90.00	10300.0	80.3	0.0	0.0	15.9	96.2	114.4	
								\$e.	· · · · · · · · · · · · · · · · · · ·		tan Barana da ja	en artinament et jege egenge.
					(1:) Page	e 2.					

(b) Page 2.
Figure A-14.- Continued.

8	-17	l	71291.00	˥00	3660.0	30.3	3.0	15.0	15.9	28.2	114.4	a managara
9	15	6	3404.77	50.00	12300.0	91.9	0.0	0.0	17.4	109.2	115.0	
10	-15	1	69071.00	0.00	5208.0	49.8	3.0	15.0	17.4	44.2	115.6	
11	2	5	3402.86	90 . 00	25800.0	84.7	0.0	0.0	25.9	110.6	110.8	Dc 10
12	- 2	1	69541.00	0.00	12100.0	33.5	3.0	15.0	25.9	41.4	110.8	
13	11	6	5655.23	90.00	10600.0	84.5	_u, <u>o</u>	0.0	21.1	105.0	117-1	
14	-11	. i	70121.00	0.00	5411.0	33.8	3.0	15.0	21.1	36.9	117.1	
15	1	5	3313.22	50,00	2800.0	8.7 ∙ ,5	0.0	0.0	21.6	109.0	117.7	Significant water consists
16	-1	1	68241.00	ა. იი	2281.0	37.9	3.0	15.0	21.6	41.5	117.7	
17	8	6	6050.02	90,00	10230.0	88.7	0.0	0.0	14.9	103.7	117.9	
18	- 8	1	70241.00	0.00	4330.0	38.9	3.0	15.0	14.9	35.9	117.9	
19	18	6	5661.02	90.00	31600.0	80.4	0.0	0.0	21.4	101.9	118.0	
20	-18	1	69541.00	0.00	12100.0	31.7	3.0	15.0	21.4	35.1	118.0	

(c) Page 3. Figure A-14.- Concluded.

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FN	1	MS AF									I E	N U	R A		ี ป . 8		
LU	Ċ	ΚG				11.000				E BP	Ĺ	A	T	E	ET		
GB.	ΑY	WE								ΔN	Ī	Ī	Ó	NN	NT		
HF.		UN MT		н			В	PEI	4	SD EB	N G	O N	N S	ED TB	DA BL		
			DIAG	NDS1	rtç.	FOR	23	ARPT	AVG	SAMBD	E 8D	1987	MAXG	ATA	6-3DG	NIGHT	CORRECTED

1 17951.00 0.00 15200.0 78.8 3.0 10.0 0.8 66.6 66.6 1232.89 90.00 2500.0 101.5 0.0 0.0 0.8 102.3 102.3 C.00 15200.0 77.6 3.0 10.0 17.3 82.0 102.4 17951.00 90.00 2500.0 86.0 0.0 0.0 17.3 103.3 105.9 1232.89 0.00 12600.0 76.7 3.0 10.0 15.9 79.5 105.9 17951.00 90.00 2100.0 83.8 0.0 0.0 15.9 99.7 106.8 6 -20 1183.70 15 1 17751.00 0.00 15200.0 80.1 3.0 10.0 17.4 84.4 106.9 90.00 2600.0 92.9 0.0 0.0 17.4 110.3 111.9 8 -15 3 1232.89 17951.00 C.00 35300.0 75.8 3.0 10.0 25.9 88.7 111.9

90.00 8400.0 86.5 0.0 0.0 25.9 112.4 115.2 DC/0

(a) Page 1.

Figure A-15. - 23-Airport, 1987 - standard takeoff, two-segment approach, SAM JT3D, SAM JT8D.

10

-2 3

1282.04

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 1
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 81.4
 3.0
 10.0
 21.4
 89.8
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 18
 -18
 3
 1282.04
 90.00
 8400.0
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 0.0
 0.0
 21.4
 106.1
 118.0

ANA	LYS	IS F	OR OBSERVE	FR AT (75191.0	00,		0.00)			
FN LU IM GB HF	R C	ME UN	H	8	PFN	E BP AN SD EB	S H I E L D I N G	n	0 P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
		5	DIAGNOSTIC	FOP 23	ARPT AVG	SAM3	083C	1987	MAXO	W ATA	6-3DG	NIGHT CORRECTED
1	3	5	3383.32	90.00	12497.9	97.3	0.0	0.0	0.8	98.1	98.1	
Z	-3	1	68221.00	C. 00	5100.0	37.8	3.0	15.0	0.8	20.6	98.1	
3	4	5	3383.32	90.00	12497.9	91.2	0.0	0.0	17.3	108.5	108.9	
4	-4	1	68221.00	c.00	5100.0	34.9	3.0	15.0	17.3	34.2	108.9	
5	20	6	7282.14	90.00	10300.0	80.8	0.0	0.0	15.9	96.6	109.1	
6.	-20	1	70441.00	C• 00	3660.0	31.7	3.C	15.0	15.9	29.6	109-1	
7	15	5	3383.32	90.00	12497.9	93.0	0.0	0.0	17.4	110.3	112.8	
H	-15	1	69221.00	C.00	5208.0	50.0	3.0	15.0	17.4	49.3	112.8	
9	2	5	3361.18	90.00	25800.0	84.8	0.0	0.0	25.9	110.7	114.9	DC 10
10	-2	1	68691.00	C• 00	12100.0	33.7	3.0	15.0	25.9	41.6	114.9	

(b) Page 2.

Figure A-15. - Continued.

11	6	6	5563.88	90.00	10600.0	82.9	0.0	0.0	21.1	104.0	115.2	
12	-6	1	69271.00	C- 90	5411.0	44.4	3.0	15.0	21.1	47.5	115.2	
1.3	1	5	3264.74	50.00	2800.0	87.6	0.0	0.0	21.6	109.2	116.2	
14	-1	1	67391.00	c.00	2281.0	38.1	3.0	15.0	21.6	41.7	116.2	
15	8	4	5944.53	90.00	10230.0	88.5	0.0	0.0	24.1	113.0	117.9	B727 SAM
16	- 8	1	69391.00	c.on	4330.0	39.1	3.0	15.0	24.1	45.2	117.9	
17	13	6	5610.34	90.00	31600.0	80.6	0.0	0.0	21.4	102.0	118.0	
18	-18	1	68691.00	0.00	12100.0	31.9	3.0	15.0	21.4	35.3	118.0	

(c) Page 3.

Figure A-15. - Concluded.

ANA	LYS	IS (OR ORSERVE	R AT (-18253.	00,		0.00)			
FN LU IM GB HE TR	R R T AY FP	MS AF XG IM ME UN MT			PFN	E BP AN SD EB	S H I E L D I N G	ATTENUATION	O P E R A T I O N	E P NN ED TB	S U B ET PO NT DA BL	
 	_	1	TAGNOSTIC	FOR 23	ARPT AVG	S AM31	RFN	8D 198	7 MAXG	ATA W	6-3DG	NIGHT CORRECTED
1	3	1	18353.00	0.00	15200.0	78.4	3.0	10.0	0-8	66.2	66.2	
2	-3	_ 3	1271.42	90.00	2500.0	101.2	0.0	ō.ō	0.8	102.0	102.0	
3	4	1	18353.00	C. 00	15200.0	77.3	3.0	10.0	17.3	81.6	102.0	
4	-4	- 3	1271.42	90.00	2500.0	85.7	0.0	0.0	17.3	103.0	105.5	
5	10	1	18353.00	C. 00	13160.0	57.3	3.0	10.0	15.9	60.2	105.5	
b	-19	3	1218.73	90.00	2100.0	83.3	0.0	0.0	15.9	99.1	106.4	
7	15	1	18353.00	0.00	15200.0	79.7	3.C	10.0	17.4	84.1	106.5	
8	-15	``3	1271.42	90.00	2600.0	92.6	0.0	0.0	17.4	109.9	111.5	
9	2	1	18353.00	c.00	35300.0	75.5	3•0	10.0	25.9	88.4	111.6	
10	-2	3	1324.06	90.00	8400.0	86.1	0.0	0.0	25.9	112.0	114.8	DCIO
11	12	1	18353.00	0.00	12750.0	69.3	3.0	10.0	21.1	77.4	114.8	
12	-12	3	1324.06	90.00	2800.0	82.0	0.0	0.0	21.1	103.1	115.1	
13	ī	1	18353.0Č	c. 00	3355.0	72.7	3.0	10.0	21.6	81.3	115.1	And the second s
14	-1	3	1051.70	90.00	1615.0	89.8	0.0	0.0	21.6	111.4	116.6	B747
15	10	1	19353.00	0.00	12900.0	72.9	3.0	10.0	24.1	84.0	116.6	

(a) Page 1.

Figure A-16. - 23-Airport, 1987 - standard takeoff, two-segment approach, SAM JT3D, RFN JT8D.

16 -	10	3	1324.06	90.00	1800.0	87.2	0.0	0.0	24.1	111.3	117.7	and the second s
							:	•1				
17	18	1	18353.00	0.00	43250.0	81.2	3.0	10.0	21.4	89.6	117.7	
			•									
18 -	18	3	1324.06	90.00	8400.0	84.3	0.0	0.0	21.4	105.7	118.0	The second secon

ANA	LVS	ts (OR OBSERVE	ER AT (67210.	00,		0.00)			
	Δ						S.	A T T	0 P		s	
FN	I R	MS					I F	N U	R		U B	
LU IM GB	C RT		To the second second second			E BP AN	L D	A T I	T I	E P NN	ET PO NT	umanan in mand à Ambrellin que d'Ambrellin man art et : Minavanin
HE TR		UN MT	н	В	PFN	SD EB	N G	O N	N	ED TB	DA BL	
			DIAGNOSTIC	FOR 23	ARPT AVG	SAM3	DRFN	BD 198	7 MAXO	W ATA	6-3DG	NIGHT CORRECTED
1	3	5	3263.53	90.00	12600.0	98.1	0.0	ō.o	0.8	98.9	98.9	
2	-3	1	60240.00	0.00	5100.0	40.1	3.0	15.0	0.8	22.9	98.9	
3	4	5	3263.53	90.00	12600.0	92.0	0.0	0.0	17.3	109.3	109.7	
4	-4	1	60240.00	0.00	5100.0	37.C	3.0	15.0	17.3	36.3	109.7	and the state of t
5	19	6	8213.93	90.00	11000.0	67.9	0.0	0.0	15.9	83.7	109.7	
6	-19	1	62460.00	c.00	3660.0	26.3	3.0	15.0	15.9	24. 2	109.7	ant a color con administrative described in constructive de colored to the
7	15	5	3263.53	90.00	12600.0	93.9	0.0	0.0	17.4	111.3	113.6	DC8 SAM
8	-15	1	60240.00	0.00	5208.0	51.5	3.0	15.0	17.4	50.9	113.6	e reservice de la communicación de la companya del companya de la companya del companya de la co
9	2	4	3032.88	90.00	27400.0	87.6	0.0	0.0	25.9	113.5	116.6	DC10
10	-2	1	60710.00	0.00	12100.0	35.6	3.0	15.0	25.9	43.5	116.6	

(b) Page 2,

Figure A-16. - Continued.

11	12	5 7876.50	90.00	11300.0	71.9 0.0	0.0	21.1	93.0	116.6
12	-12	1 61290.00	0.00	5370.0	42.1 3.0	15.0	21.1	45.2	116.6
13	1	4 3138.26	90.00	2800.0	88.5 0.0	0.0	21.6	110.1	117.5
14	-1	1 59410.00	0.00	2281.0	40.1 3.0	15.0	21.6	43.7	117.5
15	10	6 6272.61	SG.00	11200.0	82.2 0.0	0.0	24.1	106.3	117.8
16	-10	1 61410.00	C • 00	4330.0	54.5 3.0	15.0	24.1	60.6	117.8
17	18	6 4946.6	7 90.00	31600.0	82.0 0.0	0.0	21.4	103.5	117.9
18	-18	1 60710.00	C-00	12100.0	33.8 3.0	15.0	21.4	37.2	117.9

(c) Page 3. Figure A-16. - Concluded.

ANA	LYS	15 1	OR CBSERVE	ER AT (-50 7 85	.00,		0.00				
		•		-	agendades (no. a constitution)	man grown sawing	File (Mar Amarikas) (K. 1876)	<u>A</u>	<u> </u>		and the second second second	and the comment
FN LU IM GB HE TR	RT AY FP	XG IM ME		.	PFN	E BP AN SD EB	S H I E L D I N G	T E N U A T I O N	P E R A T I O N	LP ED NN E	BT BT BT BT BT BT BT BT BT BT BT BT BT B	
	· · · · · ·		DIAGNESTIC	FOR 23	AIRPORT	AVG	1987	BASE	MAXG	FAR	3DE 6	NT.CUR.
1	1	1	50885.00	0.00	3355.0	54.4	3.0	10.0	21.6	63 <u>.</u> 0	63.0	
2	-1	3	2710.22	90.00	2305.0	85.7	0.0	0.0	21.6	107.3	107.3	
3	3	1	50885.00	0.00	14500.0	59.2	3.0	10.0	17.4	63.6	107.3	
4	-3	2	2710.22	90.00	5100.0	94.4	0.0	0.0	17.4	111.8	113.1	8707
5	7	1	50885.00	0.00	12290.0	67.0	3.0	10.0	23.5	77.5	113.1	
6	-7	2	2710.22	90.00	4330.0	88.3	0.0	0.0	23.5	111.8	115.5	B727
7	17	1	50885.00	0.00	12460.0	60.0	3.0	10.0	15.9	62.9	115.5	
8	-17	2	2710.22	90.00	3660.0	_82.2	<u>0.</u> 0	0.0	15.9	98.1	. 115.6	
9	14	1	50885.00	0.00	15200.0	62.0	3.0	10.0	17.4	66.4	115.5	
10	-14	2	2710.22	90.00	5208.0	94.7	0.0	0.0	17.4	112.1]117.2	DC8
11	2	1	50885.00	0.00	35300.0	64.0	3.0	10.0	25.9	76.9	117.2	
12	-2	2	2710.22	90.00		80.8) Page		0.0	25.9	106.7	117.0	

Figure A-17. - 23-Airport, 1987 - cutback takeoff, standard approach.

13	11	1	50885.00	0.00	12200.0	66.7	3.0 10.0	21.1	74.8 11	.7.0	
		×	10 10 14 2 <u>2</u> 2 2 3 2 3 2 3								
14	-11	2	2710.22	90.00	5411.0	85.3	0.0 0.0	21.1	106.4 11	.7•9	
15	18	1	50885.00	0.00	43250.0	71.1	3.0 10.0	21.4	79.5 11	[7.9	
16	-18	2	2710-22	90.00	12100.0	79.0	0.0 0.0	21.4	100.4 11	<u>la.</u> ù	
17	8	1	50885.00	0.00	12290.0	66.0	3.0 10.0	14.9	67.9 11	ø. O	ety,
18	-8	2	2710-22	90.00	4330.0	83.1	0.0 0.0	14.9	98.1 11	. შ. 0	

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TR	TE	MT	Н	В 	PFN	EB	G	N	S	TB		
		E	DIAGNESTIC	FOR 23	AIRPORT	AVG	1987	BASE	MAXG	FAR 3	DEG	NT.COR.
1	1	5	5015.16	90.00	2800.0	82.5	0.0	0.0	21.6	104.1	104.1	
_												
			00070 00	0.00	2001.0	31.0	2.0	150	31 4) E	1.13.6 4	
2	1	1	98078.00	, 0,00	2281.0	31.9	2.0	15.0	21.0		104.1	na ben'n i e
3	3	5	4237.79	90.00	12080.0	94.7	0.0	0.0	17.4	112.2	112.8	B707
14.15												
4	_2		98908.00	0.00	5100 n	20.0	- A	16 0	17 /	20.2	1.	

(b) Page 2. Figure A-17.- Continued.

5	. 7	5	5188.87	90.00	8060.0	87.7	0.0	0.0	43.5	111.2	115.1	
6	7	1	100078.00	0.00	4330.0	33.6	3.0	15.0	23.5	39.1	115.1	الله المراجعة المراج المراجعة المراجعة ال
7	17	5	8454.27	90.00	8330.0	75.5	0.0	0.0	15.9	91.3	115.1	
8	-17	1	101128.00	0.00	3660.0	24.4	3.0	15.0	15.9	22.3	115.1	
9	14	4	4222-15	90.00	11530.0	96.4	0.0	0.0	17.4	113.7	117.5	DC8
10	-14	1	98908.00	0.00	5208.0	0.9	3.0	15.0	17.4	0.3	117.5	and the second second
11	2	5	4865.59	90.00	25800.0	80.3	0.0	0.0	25.9	106.2	117.0	en de la companya de
12	-2	1	99378.00	0.00	12100.0	28.1	3.0	15.0	25.9	36.0	117.8	
13	11_	5	9647.54	90.00	9600.0	76.1	ŭ•0	0.0	21.1	97.2	117.8	
14	-11	1	99958.00	0.00	5411.0	27.8	3.0	15.0	21.1	30.9	117.8	
15	18	6	8162-14	90.00	31600.0	76.3	0.0	U.O_	21.4	97 <u>• 7</u>	117.9	•
16	-18	1	99378.00	0.00	12100.0	26.3	3.0	15.0	21.4	29.7	117.9	
17	8	5	5188.87	90.00	8060.0	85.9	0.0	0.0	14.9	100.9	117.9	week to the same
18	-8	1	100078.00	0.00	4330.0	33.3	3.0	15.0	14.9	30.2	117.9	

(c) Page 3.
Figure A-17. - Concluded.

EN LU IM GB HE TR	R C PT AY	MS AG IM ME UN MT	Н	В	PFN		D I N G	T I O N	O N S	P NN ED TB	PO NT DA BL	
1	7		25998.00									
2	- 7	- 3	2123.18	90.00	1800.0	89.2	0.0	0.0	23.5	112.7	112.7	8727
			25998.00 1885.04									
5	2	1	25998.00	c.00	35300.0	71.6	3.0	10.0	25.9	84.5	113.0	
			2123.18 25998.00									
8	-11	3	2123.18	90.00	2800.0	83.4	0.0	0.0	21.1	104.5	114.2	
			25998.00									
			25998.00									
12	-18	3	2123.18	90.00		78.1		0.0	21.4	99.5	114.4	

Figure A-18. - 23-Airport, 1987 - cutback takeoff, two-segment approach.

13	1	ī	25998.00	0.00	3355.0	66.5	3.0	10.0	21.6	75.0	114.4	
14	-1	3	1784.44	90.00	1615.0	83.9	0.0	0.0	21.6	105.5	114.9	
15	14	ī	25998.00	0.00	15200.0	72.8	3.0	10.0	17.4	77.1	114.9	
16	-14	3	2004.16	90.00	2600.0	93.6	0.0	0.0	17.4	111.0	116.4	
17	3	1	25998.00	0.00	14500.0	70.9	3.0	10.0	17.4	75.4	116.4	to manufacture of the latest American
18	-3	3	2004.16	90.00	2500.0	95.5	0.0	0.0	17.4	112.9	118.0	B707

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<u>FN</u>	R		. The second	er pro mijit a prici disaas va va. prisir	n delication proper gations of the state of the second		, <u> </u>	<u></u> <u>Ų</u>	<u>A</u>		<u>B</u>	~ ~ ~
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TR	TE	MT	H	R	PEN	EB	G	N	S	TB	BL	
1	7	5	5184.20	90.00	8060.0	87.7	0.0	0.0	23.5	111.2	111.2	
			99974.00									
			8446.61							Seria Fil		na mahanan dari da jaga
			101024.00									
5	2	כ	4860.49	90.00		80.3		0.0	25.9	106.2	11244	

Figure A-18. - Continued.

6	- 2	1	99274.00	0.00	12100.0	28.1	3.0	15.0	25.9	36.0 112.4	gan i i ga san san san san san san san san san sa
7	11	5	9638.11	90.00	9600.0	76.1	0.0	0.0	21.1	97.2 112.6	
8	-11	ĭ	99854.00	0.00	5411.0	27.8	3.0	15.0	21.1	30.9 112.6	
9	8	5	5184.20	90.00	8060.0	85.9	0.0	0.0	14.9	100.9 112.8	
10	- 8	1	99974.00	0.00	4330.0	33.3	3.0	15.0	14.9	30.3 112.8	ay ayang radi yang radi k
11	18	6	8153.50	90.00	31600.0	76.3	0.0	0.0	21.4	97.7 113.0	
12	-18	1	99274.00	0.00	12100.0	26.3	3.0	15.0	21.4	29.7 113.0	
13	- 1	5	5009.23	90.00	2800.0	82.5	0.0	0.0	21.6	104.1 113.5	entry over the second
14	-1	1	97974.00	0.00	2281.0	32.0	3.0	15.0	21.6	35.5 113.5	
15	14	- 4	4217.98	90.00	11530.0	96.4	0.0	0.0	17.4	113.7 116.6	DC8
16	-14	1	98804.00	C•00	5208.0	0.9	3.0	15.0	17.4	0.3 116.6	
17		5	4233.64	90.00	12080.0	94.7	0.0	0.0	17.4	112.2 118.0	B707
18	-3	1	98804.00	0.00	5100.0	30.9	3.0	15.0	17.4	30.3 118.0	

(c) Page 3.
Figure A-18.- Concluded.

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	3	17	1	22221.00	0.00	12460.0	72.	7.3.0	10.0	15.9	75.5	115.2	
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	4	-17	3	1555.85	90.00	2100.0	86.	5_0.0	0.0	15.9	102.8	115.5	
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	5	2	1	22221.00	0.00	35300.0	73.4	+ 3.0	10.0	25.9	86.3	115.5	

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7 11 1 22221.00 0.00 12200.0 76.5 3.0 10.0 21.1 84.7 116.3

6 -2 3 1728.38 90.00 8400.0 82.6 0.0 0.0 25.9 108.5 116.3 DC/O

0.00 12290.0 78.7 3.0 10.0 14.9 80.6 116.8 8 1 22221.00

10 -8 3 1728.38 50.00 1800.0 60.9 0.0 0.0 14.9 95.9 116.8

11 18 1 22221.00 0.00 43250.0 79.3 3.0 10.0 21.4 87.7 116.8

50.00 8400.0 80.8 0.0 0.0 21.4 102.2 117.0 12 -18 3 1728.38

(a) Page 1.

Figure A-19. - 23-Airport, 1987 - cutback takeoff, two-segment approach, SAM JT3D.

```
13 1 1 22221.00 0.00 3355.0 69.3 3.0 10.0 21.6 77.9 117.0
14 -1 3 1422.43 90.00 1615.0 86.5 0.0 0.0 21.6 108.0 117.5
15 15 1 22221.00 0.00 15200.0 76.6 3.0 10.0 17.4 81.0 117.5
16 -15 3 1642.15 90.00 2600.0 89.7 0.0 0.0 17.4 107.0 117.9
17 3 1 22221.00 U.00 14500.0 73.7 3.0 10.0 0.8 61.5 117.9
18 -3 3 1642.15 90.00 2500.C 98.0 0.0 0.8 98.8 117.9
19 4 1 22221.00 0.00 14500.0 72.3 3.0 10.0 17.3 76.7 117.9
20 -4 3 1642.15 90.00 2500.0 83.1 0.0 0.0 17.3 100.4 118.0
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1 7 5 4069.90 90.00 8060.0 90.7 0.0 0.0 23.5 114.2 114.2 B727
 2 -7 1 75664.00 0.00 4330.0 38.3 3.0 15.0 23.5 43.8 114.2
 3 17 5 6653.50 90.00 8330.0 78.8 0.0 0.0 15.9 94.7 114.2
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Figure A-19. - Continued.

(b) Page 2.

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4-17 1 76714.00 0.00 3660.0 29.1 3.0 15.0 15.9 26.9 114.2
 5 2 5 3668.71 90.00 25800.0 83.8 0.0 0.0 25.9 109.7 115.5 DC/O
 6 -2 1 74564.00 0.00 12100.0 32.3 3.0 15.0 25.9 40.3 115.5
 7 11 5
         7434.85 90.00 9600.0 79.7 0.0 0.0 21.1 100.8 115.7
         75544.00 0.00 5411.0 32.6 3.0 15.0 21.1 35.7 115.7
         4089.90 90.00 8060.0 88.9 0.0 0.0 14.9 103.8 115.9
 9 8 5
10 -8 1 75664.00 0.00 4330.0 37.8 3.0 15.0 14.9 34.7 115.9
11 18 6 6131.98 90.00 31600.0 79.6 0.0 0.0 21.4 101.0 110.1
12 -18 1 74964.00 0.00 12100.0 30.5 3.0 15.0 21.4 34.0 116.1
13 1 5 3622.56 90.00 2800.0 86.5 0.0 0.0 21.6 108.1 116.7
14 -1 1 73664.00 0.00 2281.0 36.6 3.0 15.0 21.6 40.2 116.7
15 15 4 3242.38 90.00 11530.0 91.5 0.0 0.0 17.4 108.9 117.4
16 -15 1 74494.00 0.00 5208.0 48.9 3.0 15.0 17.4 48.2 117.4
17 3 5 3262.28 90.00 12080.0 98.2 0.0 0.0 0.8 99.0 117.4
18 -3 1 74494.00 0.00 5100.0 36.2 3.0 15.0 0.8 18.9 117.4
19 4 5 3262.28 90.00 12080.0 91.5 0.0 0.0 17.3 108.8 118.0
20 -4 1 74494.00 0.00 5100.0 33.4 3.0 15.0 17.3 32.7 118.0
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(c) Page 3.
Figure A-19. - Concluded.

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			DIAGNOSTIC	FOR 23	AIRPORT	AVG I	987	SAM 3	1 d83d8	MAXGW	FAR 6-3	DEG
1	20	1	17948.00	0.00	12460.0	76.4	3.0	10.0	15.9	79.3	79.3	
2	-20	· 3	1183.44	90.00	2100.0	83.8	0.0	0.0	15.9	99.7	99.7	
3	2	1	17948.00	0.00	35300.0	75.8	3.0	10.0	25.9	88.7	100.1	
4	-2	3	1281.73	90.00	8400.0	86.5	0.0	0.0	25.9	112.4	112.6	DC 10
5	6	1	17948.00	0.00	12200.0	74.9	3.0	10.0	21.1	83.0	112.6	
6	-6	3	1281.73	90.00	2800.0	85.6	0.0	9.0	21.1	106.7	113.6	
7	8	1	17948.00	0.00	12290.0	81.9	3.0	10.0	24.1	93.0	113.7	
8	-8	3	1281.73	90.00	1800.0	83.7	0.0	0.0	24.1	107.8	114.7	
9	18	1	17948.00	0.00	43250.0	81.4	3.0	10.0	21.4	89.8	114.7	
10	-18	3	1281.73	90.00	8400.0	84.7	0.0	0.0	21.4	106.1	115.2	

(a) Page 1.

Figure A-20.- 23-Airport, 1987 - cutback takeoff, two-segment approach, SAM JT3D, SAM JT8D.

3355.0 73.1 3.0 10.0 21.6 81.7 115.2

90.00 1615.0 90.2 0.0 0.0 21.6 111.8 116.9 B747

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12 -1 3

13	15	1,	17948-00	0.00	15200-0	80.1	3.0	10.0	17.4	84-4	116.9
14	-15	3	1232.60	90.00	2600.0	92.9	0.0	0.0	17.4	110.3	117.7
15	3	1	17948.00	0.00	14500.0	77.4	3.0	10.0	0.8	65.2	117.7
16	-3	3	1232.60	90.00	2500.0	101.6	0.0	0.0	0.8	102.3	117.9
17	4	1	17948.00	0.00	14500.0	. 75.6	3.0	10.0	17.3	80.0	117.9
18	-4	3	1232.60	90.00	2500.0	86.0	0.0	0.0	17.3	103.3	118.0

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1 20 5 6271.94 90.00 8330.0 79.8 0.0 0.0 15.9 95.7 95.7

2 -20 1 71541.00 0.00 3660.0 31.5 3.0 15.0 15.9 29.4 95.7

3 2 5 3415.11 90.00 25800.0 84.6 0.0 0.0 25.9 110.5 110.7 DC/O

4 -2 1 69791.00 0.00 12100.0 33.4 3.0 15.0 25.9 41.4 110.7

5 6 5 6966.00 90.00 9600.0 78.9 0.0 0.0 21.1 100.0 111.0

6 -6 1 70371.00 0.00 5411.0 44.2 3.0 15.0 21.1 47.3 111.0

7 8 5 3857.04 90.00 8060.0 89.4 0.0 0.0 24.1 13.5 115.4 8727 SAM

(b) Page 2.

Figure A-20. - Continued.

8	-8	1	70491.00	0.00	4330.0	38.9	3.0	15.0	24.1	45.0	115.4
9	18	6	5701.81	90.00	31600.0	80.4	0.0	0.0	21.4	101.8	115.6
10	-18	1	69791.00	0.00	12100.0	31.6	3.0	15.0	21.4	35.1	115.6
11	1	5	. 3327.48	90.00	2800.0	87.4	0.0	0.0	21.6	109.0	116.5
12	-1	1	68491.00	0.00	2281.0	37.8	3.0	15.0	21.6	41.4	116.5
13	15.	4	303478	90.00	11530.0	92.2	0.0	0.0.	17.4	105.6	117.3
14	-15	1	69321.00	0.00	5208.0	49.8	3.0	15.0	17.4	49.1	117.3
15	3	5	3055.58	90.00	12080.0	99.0	0.0	0.0	0.8	99.8	117.4
16	-3	1	69321.00	0.00	5100.0	37.5	3.0	15.0	0.8	20.3	117.4
17	4	5	3055.58	90.00	12080.0	92.1	0.0	0.0	17.3	109.4	118.0
18	-4	1	69321.00	0.00	5100.0	34.6	3.0	15.0	17.3	33.9	118.0

(c) Page 3. Figure A-20. - Concluded.

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TR	TE		· h	В	PEN	EB	G	N.	S	TB	Bi

DIAGNESTIC FOR 23 AIRPORT AVG 1987 SAM3D RBD MAXGW FAR 6-3000

1	2	1	18340.00	U.00	35300.0	75.5	3.0	10.0	25.9	ი 8.4	80.4	
2	-2	3	1322-71	50.00	8400.0	86.1	0.0	0.0	25.9	112.0	112.0	DCIO
3	18	1	18340.00	0.00	43250.0	81.2	3.0	10.0	21.4	89.0	112.0	
4	-18	3	1322.71	50.00	8400.0	84.3	0.0	0.0	21.4	105.7	112.9	
5	1	1	18340.00	0.00	3355.0	72.7	3.0	10.0	21.6	81.3	112.9	
6	-1	3	1050.45	90.00	1615.0	89.8	0.0	0.0	21.6	111.4	115.3	B147
7	15	1	18340.00	0.00	15200.0	79.7	٥.٥	10.0	17.4	34.1	115.3	
8	-15	3	1270.18	90.00	2600.0	92.6	0.0	0.0	17.4	109.9	110.4	
9	3	1	18340.00	u. 00	14500.0	77.0	3.0	10.0	0.8	64.d	116.4	
10	-3	3	1270.18	90.00	2500,0	101.2	0.0	 0	0.8	102.0	110.5	
11	4	1	18340.00	U-00	14500.0	75.3	3.0	10.0	17.3	79.6	110.5	
12	-4	3	1∠70.18	90.00	2500 . û	85.7	0.0	U.U	17.3	103.0	110./	
13	10	1	18340.00	0.00	12900.0	73.0	3.0	10.0	24.1	84. ე	116.7	
14	-10	3	1322.71	90.00	1800.0	87.2	U . U	0.0	24.1	111.5	117.6	

(a) Page 1.

Figure A-21. - 23-Airport, 1987 - cutback takeoff, two-segment approach, SAM JT3D, RFN JT8D.

15	12	1	18340.00	0.00	12750.0	69.3	3.0	10.0	21.1	77.4.1	17.8
16	-12	3	1322.71	50.00	2800.0	82.0	0.0	0.0	21.1	103.1 1	18.0
17	19	1	18340.00	0.00	13160.0	57.3	3.0	10.0	15.9	60.2 1	18.0
18	-19	3	1217.60	90.00	2100.0	83.3	Ü.U	0.0	15.9	99.1 1	10.0

Δ	ΝA	LYS	15 F	OR CBSERVE	ER AT (69404	.00,		0.00)			
		A						S H	A T T F	0 P E		S	
		1	MS					I	N.	R.		U	
	N. U	R C					E	E	U A	A T	ĉ	ET.	
	M	RT	IM				ВР	D	T	Ĭ	P	ั้วบ	
	В		ME				AN SD	I N	I	() N	Niv	NT	
-	IF R		MT	н	В .	PFN	EB	G	n N	S	ED To	DA BL	
				DIAGNESTIC	FUR 23	AIRPORT	AVG	1987	SAM3D	R 8D 0	1AXGW I	 FAR 6-3	DEG
	1:-	2	4	3082.65	90.00	26114.5	86.1	0.0	U.U	25.9	112.1]112.1	DC10
	2	-2	1	62964.00	0.00	12100.0	35.0	3.0	15.0	25.9	42.9	112.1	
	3	18	6	5129.11	90.00	31600.0	81.6	0.0	0.0	21.4	103.0	112.6	
	4	-18	1	62904.00	0.00	12100.0	33.2	3.0	15.0	21.4	36 . 7	112.6	
				3162.41							-		
				61664.00									
	7	15	4	2758.39	90.00	11530.0	93.2	0.0	0.0	17.4	110.0	110.0	DC8 SAM

(b) Page 2. Figure A-21. - Continued.

0.00 5208.0 51.1 3.0 15.0 17.4 50.4 116.0

7	3	,5	2780.39	90.00	12080.0	100.2	0.0	0.0	0.8	101.0	110.1	
10	-3	1	62434.00	0.00	5100.0	39.4	3.0	15.0	J.8	22.2	116.1	
11	4	5	2780.39	90.00	12080.0	93.0	0.0	0.0	17.3	110.3	117.1	on and the
12	-4	1	62434.00	0.00	5100.0	36.4	3.0	15.0	17.3	35.7	117.1	Are the second
13	10	5	3803-24	90.00	8230.0	86.5	0.0	0.0	24.1	110.6	118.0	B727 RFN
14	-10	1	636C4.00	0.00	4330.0	54.2	3.0	15.0	24.1	00.2	110.0	
15	12	5	6167.02	90.00	9600.0	72.9	0.0	U.O	21.1	94.1	116.0	
16	-12	1	63484-00	0.00	5370.0	41.7	3.0	15.0	21.1	44.0	118.0	
17	19	5	5983.45	90.00	8390.0	72.1	0.0	0.0	15.9	8 8. V	118.0	
18	-19	1	64654.00	0.00	3660.0	25.7	3.0	15.0	15.9	23.0	118.0	

(c) Page 3.

Figure A-21. - Concluded.

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HE	FP		. н -	8	PFN	SD EB	N G	. O	N S	ED	DA	
TR	15	MT	n 	10	FFN	ED		14		TB	BL	
·		D	IAGNOSTIC F	OR 23	ARPT AVG	BASE	19	72 CUR	FEW 30)	MAXC	W ATA 3DG
										4		
									-			
1	3	. 1	44689.00	C.00	15200.0	63.2	3.0	10.0	15.9	66.1	66.1	
2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2385.94	90 00	5100 0	06 4	0.0	0 0	16.0	1100	112 7	B707
. 2	- 3	2	2302094	94.00	2100.0	70.4	U • U	0.0	13.7	116.6	112.2	0101
3	7	1	44689.00	0.00	12300.0	68.9	3.0	10.0	23.8	79.7	112.2	- 11 M
	fring	· sementabe ·		. we are to a someone	energia yang panggan p Panggan panggan pangga			entre and the second			Park 1 1 120	
, 4	-7	2	2385.94	90.00	4330.0	89.8	0.0	0.0	23.8	113.6	116.0	B 727
5	17	1	44689.00	0.00	12600 0	62.4	3.0	10.0	15 4		116 0	. The proof to be a secured to 1
		•	44007800	0.00	12000.0	0.2.0	340	10.0	1707	U-T = 0	110.0	
6	-17	2	2385.94	90.00	3660.0	84.0	0.0	0.0	15.4	99.4	116.1	
_									الأرا للواليعة		المنافع	المرا فيعلن سيسان
, f :	14	1	44689.00	0.00	15200-0	64.1	3.0	10.0	14.4	65.5	116.1	
	M											
Я	-14	2	2385 . 94	90.00	5208-0	97.0	0.0	0.0	14.4	111.3	117.3	Comment of Lines
	•			, , , ,	220040	,,•			•		***	•
							100					
9	2	1	44689.00	0.00	35300.0	65.5	3.0	10.0	13.1	65.6	117.3	
3.0			2205 04		10100					*		Application of the second second second
10	-2	2	2385.94	90.00	12100.0	82.6	0.0	0.0	13.1	95.7	117.4	
11	11	1	44689.00	0.00	12200-0	68-2	3.0	10-0	22.4	77.6	117-4	
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			1 5 Table 1 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and the second s			and the same	The second second			
12	-11	2	2385.94	90.00	5411.0	87.0	0.0	0.0	22.4	109.4	118.0	
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
12			44689.00	0.00	2255 ^	54 7	2 ^	10.0	16 F	50 3	110 0	
10	1	. 1	44007.00	U= 00	3333.0	20• (2.0	10.0	14.0	20.3	TT0*0	
14	-1	3	2385.94	90.00	2305.0	87.2	0.0	0.0	14.5	101.7	118.1	
								- 384		77-11		
					7.	a) Pag	. I					
	100				,,	., ray	·					

Figure A-22. - 23-Airport, curfew JT3D, 1972 - standard takeoff, standard approach.

NΑ	LYS	IS F	OR OBSERVE	R AT (76920.0	00,		0.00)			
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M	-	IM				ВР	D	Ť	ì	P	20	****
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P 	_ b	MT	H	B	PFN		G 	N	S 	TB	BL.	
		ō	IAGNOSTIC	FOR 23	ARPT AVG	BASE	E 19	72 CUR	FEW 31)	MAX	W ATA 3DO
1	3	6	3458.13	90.00	12300.0	96.3	0.0	0.0	15.9	112.2	112.2	
			was a company of the same							***		
			69950.00				, (
3	7	6	6160.33	90.00	10230.0	89.5	0.0	0.0	23.8	113.3	115.8	B727
4	-7	1	71120.00	c.00	4330.0	39.3	3.0	15.0	23.8	45.1	115.8	
5	17	6	7450.86	90.00	10300.0	80.2	0.0	0.0	15.4	95.6	115.8	
6	-17	ī	72170.00	0.00	3660.0	30.1	3.0	15.0	15.4	27.6	115.8	
7	14	6	3458.13	90.00	12300.0	98.0	0.0	0.0	14.4	112.4	117.4	DC8
3	-14	- i	69950.00	0.00	5208.0	10.8	3.0	15.0	14.4	7.2	117.4	Susseria de la Neugania de paralegar espaça y per er
9	2	5	3445.95	90.00	25800.0	84.5	0.0	0.0	13.1	97.6	117.5	
כ	- 2	î	70420.00	C.00	12100.0	33.3	3.0	15.0	13.1	28.4	117.5	
1	11	6	5749.71	90.00	10600.0	84.3	0.0	0.0	22.4	106.7	117.8	
2	-11	ī	71000.00	0.00	5411.0	33.6	3.0	15.0	22.4	38.0	117.8	
3	1	5	3363.36	90.00	2800.0	87.3	0.0	0.0	14.5	101.8	117.9	ora paragraphic manadatang paralidegapan
+	-1	ī	69120.00	C. 00	2281.0	37.7	3.0	15.0	14.5	34.2	117.9	

(b) Page 2. Figure A-22. - Concluded.

ΔN/	ALYS	IS F	OR DESERVER	AT C	-42761.	00,		0.00)			
FN_LU IM GB HE TR	R C RT AY FP			8	PFN	E BP AN SD EB		E N U A T I	O P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
		ſ	TAGNOSTIC (OP 23	ARPT AVG	BASE	198	32 M	AXGW /	TA 3DG	C I	RFEW 3D
1	3	1	42861.00	0.00	15200.0	64.0	3.0	10.0	12.3	63.2	63.2	
2	- 3	2	2290.27	90.00	5100.0	97.0	0.0	0.0	12.3	109.3	109.3	B707
3	7	1	42861.00	0.00	12300.0	69.5	3.0	10.0	23.9	80•4	109.3	
4	-7	2	2290.27	90.00	4330.0	90.3	0.0	0.0	23.9	114.2	115.4	B727
5	17	1.	42861.00	0.00	12600.0	63.0	3.0	10.0	16.0	66.0	115.4	
6	-17	2	2290.27	90.00	3660.0	84.5	0.0	0.0	16.0	100.5	115.5	
7	14	1	42861.00	0.00	15200.0	64.8	3.0	10.0	10.4	62.2	115.5	
8	-14	2	2290.27	90.00	5208.0	97.7	0.0	0.0	10.4	108.1	116.2	
9	2	1	42861.00	0.00	35300.0	65.9	3.0	10.0	24.7	77.6	116.2	
10	-2	2	2290.27	50.00	12100.0	83.1	0.0	0.0	24.7	107.3	116.8	
11	11	1	42861.00	0.00	12200.0	68.7	3.0	10.0	21.2	76.9	116.8	
12	-11	2	2290.27	90.00		87.5 Page		0.0	21.2	108.7	117.5	
					· · · · ·	5 -	- 1					

Figure A-23.- 23-Airport, curfew JT3D, 1981 - standard takeoff, standard approach.

13 1 42861.00 0.00 3355.0 57.5 3.0 10.0 20.2 64.7 117.5

14 -1 3 2290.27 90.00 2305.0 87.7 0.0 0.0 20.2 107.9 117.9

15 8 1 42861.00 0.00 12300.0 68.6 3.0 10.0 14.1 69.7 117.9

16 -8 2 2290.27 90.00 4330.0 84.6 0.0 0.0 14.1 98.7 118.0

17 18 1 42861.00 0.00 43250.0 72.8 3.0 10.0 19.2 79.0 118.0

18 -18 2 2290.27 90.00 12100.0 81.3 0.0 0.0 19.2 100.6 118.0

ANA	LYS	S	FOR OBSERVE	R AT (75230.	00,		0.00)			
FN LU IM GB HE TR	R	ME		8	PFN	E BP AN SD EB	S H I E L D I N	A T T E N U A T I	0 P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
		 !	DIAGNOSTIC	FOR 23	APPT AVG	BÄSI	198	31 M	AXGW A	TA 3D	 3 CIJ	RFEW 3D
1	3	5	3 383• 90	90.00	12486.2	97.2	0.0	0.0	12.3	109.5	109.5	B707
2	-3	1	68260.00	0.00	5100.0	37.8	3.0	15.0	12.3	32.1	109.5	
3	7	6	5949.40	9C.00	10230.0	89.9	0.0	0.0	23.9	113.8	115.2	B727
4	-7	1	69430.00	0.00	4330.0	39.7	3.0	15.0	23.9	45.6	115.2	
5	17	6	7285.95	90.00	10300.0	80.5	0.0	0.0	16.0	96•5	115.2	

(b) Page 2. Figure A-23.- Continued.

.60	-17	- 1	70480.00	0.00	3660.0	30.5	3.0	15.0	16.0	28.5	115.2	
7	14	5	3383.90	90.00	12486.2	98.8	0.0	0.0	10.4	109.1	116.2	
8	-14	į j	68260.00	0. 00	5208.0	11.5	30	15.0	10.4	3.9	116.2	
3	2	5	2363.10	90.00	25800.0	84.8	0.0	0.0	24.7	109.5	117.0	DC/0
10	-2	1	68700.00	0.00	12100.0	33.7	3.0	15.0	24.7	40.3	117.0	
11	11	ŧ	5568.07	90.00	10600.0	84.7	0.0	0.0	21.2	105.9	117.3	
12	-11	1	5 7310. 00	0.00	5411.0	34.0	3.0	15.0	21.2	37.2	117.3	
1 3	1	5	3266.96	90.00	2800.0	87.6	0.0	9. 0	20.2	107.8	117.8	
14	-1	1	67430.00	0.00	2281.0	38.1	3.0	15.0	20.2	40.3	117.8	
15	8	4	5949 • 40	90.00	10237.0	88.9	0.0	0.0	14.1	103.0	117.9	
16	-8		6 4450 . 00	C.00	4330.0	39.1	3.0	15.0	14.1	35.2	117.9	
7	18	6	5613.58	90.10	31600.0	80.6	0.0	0.0	19.2	५५ . ह	118.0	
i o	-18	1	68730.00	0.00	12100.0	31.9	3.0	15.0	19.2	33.1	118.0	

(c) Page 3.
Figure A-23.- Concluded.

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GB	AY					AN	I	I	0	NN	NT	
HE.	FP	*** *				SD	N	0	N	ED	DA	
TR	TE	MT	, h	В	PFN	EB	G	Ŋ	S	TB	BL	
			TAGNESTIC	FOR 23	ARPT AVG	BASE	198	1 MA)	GW ATA	6-3DG	CURFE	w 3D
	,					-						
1	3	1	22917.00	0.00	15200.0	74.6	3.0	10.0	12.3	73.9	73.9	
	•								•			
2	3	3_	1708.86	90.00	2500.0	97.5	0.0	0.0	12.3	109.8 1	<u>ي ع و ن</u>	B707
				**		A Company			•			
3	7	1	22917.00	0.00	12300.0	78.8	3.0	10.0	23.9	89.7 1	09.8	
_4	7	3	1801.13	90.00	1800.0	91.3	0.0	0.0	23.9	115.2	16.3	3727
5	17	1	22917.00	0.00	12600.0	72.6	3.0	10.0	16.0	75.0 1	16.3	

6 -17 3 1616.51 90.00 2100.0 86.5 0.0 0.0 16.0 102.5 116.5

7 14 1 22917.00 0.00 15200.0 74.8 3.0 10.0 10.4 72.2 116.5

8 -14 3 1768.86 90.00 2600.0 95.8 0.0 0.0 10.4 106.1 116.8

9 2 1 22917.00 0.00 35300.0 73.0 3.0 10.0 24.7 84.7 116.9

10 -2 3 1801.13 90.00 8400.0 82.1 0.0 0.0 24.7 106.7 117.3

11 11 1 22917.00 0.00 12200.0 76.2 3.0 10.0 21.2 84.4 117.3

Figure A-24.- 23-Airport, curfew JT3D, 1981 - standard takeoff, two-segment approach.

(a) Page 1.

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13 1 1 22917.00 0.00 3355.0 68.7 3.0 10.0 20.2 75.9 117.6

14 -1 3 1469.14 90.00 1615.0 86.0 0.0 0.0 20.2 106.1 117.9

15 8 1 22917.00 0.00 12300.0 78.2 3.0 10.0 14.1 79.3 117.9

16 -8 3 1801.13 90.00 1800.0 80.5 0.0 0.0 14.1 94.6 117.9

17 18 1 22917.00 0.00 43250.0 79.0 3.0 10.0 19.2 85.2 118.0

18 -18 3 1801.13 90.00 8400.0 80.3 0.0 0.0 19.2 99.5 118.0
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10	L .	ΛΕ XG					- New a september	· · · · · · · · · · · · · · · · · · ·		E	! !!	E	U A		A T	E	Ę	6 T .		
GR.	ΔΥ	ME								BP AN		D I	I		I U	P NN	þ)T		
HF. Tp	F P	MT		 , H			В	PI	N	SD EB		V G	O. NI.		N S	ED TB)A BL		
		:) <u> </u>	GNCS	TIC	FUR	23	ARP	Γ ΑV.	BA	SE	198	1 MA	X GW	A.T	اد-6 A	Die Ci	JRFE	W 3D	

ANALYSIS FOR CBSERVER AT (75228.00, 0.00)

1 3 5 3363.87 90.00 12486.8 97.2 0.0 0.0 12.3 109.5 109.5 **B707**2 -3 1 68258.00 0.00 5100.0 37.8 3.0 15.0 12.3 32.1 109.5
3 7 6 5949.15 90.00 10230.0 89.9 0.0 0.0 23.9 113.8 115.2 **B727**4 -7 1 69428.00 0.00 4330.0 39.7 3.0 15.0 23.9 45.6 115.2
5 17 6 7245.75 90.00 10300.0 80.5 0.0 0.0 16.0 96.5 115.2

(b) Page 2.
Figure A-24.- Continued.

6.	-17	1.	70478.00	0.00	3660.0	30.5	3.0	15.0	16.0	28.5	115.2.	and the second second
7	14	5	3363.87	90.00	12486.8	98.8	0.0	0.0	10.4	109.1	116.2	
8	-14	L	68258.00	0.00	5208.0	11.5	3.0	15.0	10.4	3. 9	116.2	
ç	2	5	3363.00	90.00	25800.0	84.8	0.0	Q.O	24.7	109.5	117.0	DC 10
10	-2	1	68728.00	0.00	12100.0	33.7	3.0	15.0	24.7	40.3	117.0	
11	11	6	5567.86	90.00	10600.0	84.7	0.0	J •0	21.2	105.9	117.3	
12	-11	1	69368.00	0.00	5411.0	34.0	3.0	15.0	21.2	37.2	117.3	
13	1	5	3266.85	90.00	2800.0	87.6	0.0	0.0	20.2	107.8	117.8	
14	-1	1	67428.00	0.00	2281.0	38.1	3.0	15.0	20.2	40.3	117.8	
15	. 8	6_	5949.15	90.00	10230.0	88.9	0.0	0.0	14.1_	103.0	117.9	in intellige
16	- 8	1	69428.00	0.00	4330.0	39.1	3.0	15.0	14.1	35.2	117.9	
17	1.8	6	_5e <u>13.41</u> _	<u>90.00</u>	31600.0	80.6	0.0	0.0	19.2	99.8	118.0	
18	-18	1	68728.00	0.00	12100.0	31.9	3.0	15.0	19.2	33.1	118.0	

(c) Page 3.
Figure A-24.- Concluded.

ANA	LÝS	IS F	OR OBSERVE	R AT (-21456.	00.		0.00				
FN LU IM GB HE TK	RT AY FP	XG IM MF UN	H	В	PFN	E BP AN SD EB	S H I E L D I N G	T E N U A T I O N	R A	E P NN ED TB	S U B ET PO NT DA BL	
	_	ŋ	IAGNOSTIC	FOR 23	APT AVG	SAM3D	1981	MAXG	ATA M	6-3DG	CURF	EW 3D
1	3	1	21556,00	0.00	15200.0	75.7	3.0	10.0	-2.2	60.5	60.5	
2	-3	3	1578.41	90.00	2500.0	98.5	0.0	Ö• 0	-2.2	96.2	96 • <u>2</u>	
3	4	1	21556.00	0.00	15200.0	74.9	3.0	10.0	12.1	74.0	96.3	
4	4	3	1578.41	90.00	2500-0	83.5	0.0	0 •0	12.1	95.6_	98.9	
5	7	1	21556.00	<u>0.</u> 00	12300.0	79.7	<u>3</u> .0	10.0	23.9	90.6	99.5	
6	-7	3	1658.87	90.00	1800.0	92.1	0.0	0.0	23.9	116.1	116.1	B727
7	17	, 1	21556.00	0.00	12600.0	73.5	<u>3.</u> 0	10.0	16.0	76.5	116.1	
8_	-17	3.	1497.89	90.00	2100.0	87.4	0.0	0.0	16.0	103.4	116.4	-
9	15	1	21556.00	0.00	15200.0	77.1	3.0	10.0	10.4	74.5	116.4	
70_	=15	3	1578.41	90.00	2600.0	90.1	0.0	0.0	10.4	100.5	116.5	
11	2	1	21556.00	0.00	35300.0	73.7	3.0	10.0_	24.7	85.4	116.5	
12	-2	3	1658.87	90.00				0.0	24.7	107.8	117.0	DC10
					(a) 1	Page 1	•					

Figure A-25. - 23-Airport, curfew JT3D, 1981 - standard takeoff, two-segment approach, SAM JT3D.

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      13
      11
      1
      21556.00
      0.00
      12200.0
      76.9
      3.0
      10.0
      21.2
      85.1
      117.0

      14
      -11
      3
      1658.87
      90.00
      2800.0
      86.6
      0.0
      0.0
      21.2
      107.8
      117.5
      DC9

      15
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      21556.00
      0.00
      3355.0
      69.8
      3.0
      10.0
      20.2
      77.0
      117.5

      16
      -1
      3
      1358.69
      90.00
      1615.0
      87.0
      0.0
      0.0
      20.2
      107.2
      117.9

      17
      8
      1
      21556.00
      0.00
      12300.0
      79.1
      3.0
      10.0
      14.1
      80.2
      117.9

      18
      -8
      3
      1658.87
      90.00
      1800.0
      81.3
      0.0
      0.0
      14.1
      95.4
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      20
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      117.9
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ÀNĀ	ĹΥŚ	IS	ากล	OBS	ERVI	ER AT	(- -	71264.	.00,		0.00)			•	
					~~;		(leafrage				Α				
										S	T	O P			
	Α									H.	Ė	E		S	• 1
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FN	R	AE								E	U	- A		В	
LU	Springer & St. B.	_xe_	-	es an		·pa ma			E	L	Α		E	ET	1
MI		IW							BP	Ď	Ţ	I ·	P	PO	477777
GB		ME							AN	I	I	0	NN	NT	
HE	- X - 10 107	UN		4.1		O		DEN	SD	_ <u>N</u> .	0	Ŋ	ED	DA	
TR	_] [: 	MT		H		В		PFN	EB	G	N	S	ТВ	BL .	
			DIA	GNOS:	T IC	FOR	23	APT AVG	SAM3D	1981	MAXGW	AŢĄ	6-30G	CURF	W 3D
1	3	. 5		3324	.38	90.	00	12600.0	97.9	0.0	0.0	-2.2	95.6	95.6	
2_	3	1	_ 6	4294	.00	0.0	00	5100.0	38.9	3.0	15.0	-2.2	18.7	95.6	
3	4	5		3324	.38	90.	00	12600.0	91.8	0.0	0.0	12.1	103.9	104.5	
								(b) P	age 2.						

Figure A-25. - Continued.

```
4 -4 1 64294.00 0.00 5100.0 35.9 3.0 15.0 12.1 30.0 104.5
 5 7 6 5454.39 90.00 10230.0 90.9 0.0 0.0 23.9 114.8 115.2 B727
 6 -7 1 65464.00 0.00 4330.0 40.7 3.0 15.0 23.9 46.6 115.2
 7 17 6 6898.93 90.00 10300.0 81.2 0.0 0.0 16.0 97.2 115.3
 8-17 1 66514.00 0.00 3660.0 31.5 3.0 15.0 16.0 29.5 115.3
 9 15 5 3324.38 90.00 12600.0 93.7 0.0 0.0 10.4 104.1 115.6
10 -15 1 64294.00 0.00 5208.0 50.7 3.0 15.0 10.4 43.1 115.6
  2 5 3168.67 90.00 25800.0 85.5 0.0 0.0 24.7 110.2 116.7 DC/D
12 -2 1 64764.00 0.00 12100.0 34.6 3.0 15.0 24.7 41.2 116.7
13 11 6 5141.81 90.00 10600.0 85.8 0.0 0.0 21.2 107.0 117.1
14 -11 1 65344.00 0.00 5411.0 35.0 3.0 15.0 21.2 38.2 117.1
15 1 4 3182.86 90.00 2800.0 88.4 0.0 0.0 20.2 108.6 117.7
16 -1 1 63464.00 0.00 2281.0 39.1 3.0 15.0 20.2 41.3 117.7
17 8 6 5454.39 90.00 10230.0 90.0 0.0 14.1 104.1 117.9
18 -8 1 65464.00 0.00 4330.0 40.1 3.0 15.0 14.1 36.1 117.9
19 18 6 5283.79 90.00 31600.0 81.3 0.0 0.0 19.2 100.5 118.0
20 -18 1 64764.00 0.00 12100.0 32.8 3.0 15.0 19.2 34.0 118.0
                           (c) Page 3.
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Figure A-25. - Concluded.

ANA	LYS	IS I	OR OBSERVE	R AT (-16848.	00,		0.00)			
FN LU IM GB HF TP	AY FP	MS AE XG IM ME UN			PFN	E BP AN SD EB	S H 1 E L D 1 N G	A T T E N U A T I	O P E R A T I O N S	E P NN ED TB	S U B ET PU NT DA	The second secon
											BL 6-3DG	CURFEN 3D
1	3	1	16948.00	0.00	15200.0	79.8	3.Ó	10.0	-2.2	64.6	64.6	
2	-3	3	1136.76	90.00	2500.0	102.6	0.0	0.0	-2.2	100.3	100.3	
3	4	1	16948.00	0.00	15200.0	78.5	3.0	10.0	12.1	77.6	100.4	
4	-4	3	1136.76	90.00	2500.0	86.8	0.0	0.0	12.1	98.9	102.7	to all françaises or see
5	20	1	16948.00	0.00	12600.0	77.5	3.0	10.0	16.0	80.6	102.8	
6	-20	3	1096.28	90.00	2100.0	84.7	0.0	ő.o	16.0	100.8	104.9	and the second second
7	15	1	16948.00	0.00	15200.0	81.0	3.0	10.0	10.4	78.4	104.9	
8	-15	3	1136.76	90.00	2600.0	93.8	0.0	0.0	10.4	104.2	107.6	and the second s
9	2	1	16548.00	0.00	35300.0	76.4	3.0	10.0	24.7	88.1	107.6	
10	-2	3	1177.20	90.00	8400.0	87.6	0.0	0.0	24.7	112.3	113.5	DCID
11	6	1	16948.00	0.00	12200.0	75.7	3.0	10.0	21.2	83.9	113.5	
12	-6	3	1177.20	90.00	2800.0	86.3	0.0	0.0	21.2	10 7. 5	114.5	
13	1	1	16948.00	- 0.00	3355.0	74.1	3.0	10.0	20.2	81.3	114.5	Andrew Max Max
14	-1	2	934.09	90.00	1876.5	93.6	0.0	0.0	20.2	113.8	117.2	B747

(a) Page 1.

Figure A-26. - 23-Airport, curfew JT3D, 1981 - standard takeoff, two-segment approach, SAM JT3D, SAM JT8D.

15	8	1	16948.00	0.00	12300.0	82.8	3.0	10.0	24.3	94.2	117.2
16	-8	3	1177.20	90.00	1800.0	84.5	0.0	0.0	24.3	108.9	117.8
17	18	1	16948.00	0.00	43250.0	82.0	3.0	10.0	19.2	88.2	117.8
18	-18	3	1177.20	90.00	8400.0	85.8	0.0	0.0	19.2	105.0	118.0

AN	ALYS	IS F	OF CESERVE	ER AT L	69087.	00,		0.00)			
						•	S	A T T	0 P			** ** ********************************
FN LU IM GB HE TR	C RT	MS AE XG IM ME UN	H		PFN	E BP AN SD EB	I N	N U A T	E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
			MAGNESTIC	FOR 23	ARPT AVG	S AM3E	083C	1981	MAXGW	ATA	6-3DG	CURFEN 3D
1	3	5	3291.70	90.00	12600.0	98.0	0.0	0.0	-2.2	95.8	95.8	
2	-3	1	62117.00	0.00	5100.0	39.5	3.0	15.0	-2.2	19.3	95.8	
3	4	5	3291.70	90.00	12600.0	91.9	0.0	0.0	12.1	104.0	104.6	
4	-4	1	62117.00	0.00	5100.0	36.5	3.0	15.0	ī2.1	30.6	104.6	
5	20	6	6686.50	90.00	10300.0	81.8	0.0	0.0	16.0	97.8	105.5	
6	-20	1	64337.00	0.00	3660.0	33.2	3.0	15.0	16.0	31.2	105.5	
7	15	5	3291./0	90.00	12600.0	93•8	0.0	0.0	10.4	104.2	107.9	
8	-15	1	62117.00	0.00	5208.0	51.1	3.0	15.0	10.4	43.5	107.9	
9	2	4	3675.46	90.00	26621.8	86.7	0.0	0.0	24.7	111.3	112.9	DC/0

(b) Page 2. Figure A-26.- Continued.

10	2	1	62587.00	U. 00	12100.0	35.1	3.0	15.0	24.7	41.8	112.9	
11	6	ŧ	4507.83	90.00	10600.0	84.7	0.0	0.0	21.2	105.9	113.7	
12	-6	1	63167.00	0.00	5411.0	45.7	3.0	15.0	21.2	48.9	113.7	
13	1	4	3158.92	90.00	2800.0	88.4	0.0	0.0	20.2	108.6	114.9	
14	-1	1	61267.00	0.00	2281.0	39.6	3.0	15.0	20.2	41.8	114.9	
15	· · · · · 8	6	51 82.67	90.00	10230.0	90.6	0.0	0.0	24.3	114.9	117.9	B72T SAM
16	-8	1	63267.00	0.00	4330.0	40.6	3.0	15.0	24.3	46.9	117.9	
17	18	6	5102.75	90.00	31600.0	81.7	0.0	0.0	19.2	100.9	118.0	
18	18	1	62587.00	0.00	12100.0	33.3	3.0	15.0	19.2	34.5	118.0	

(c) Page 3. Figure A-26.- Concluded.

AN	ALYS	IS	FOR OBSERVE	ER AT (-17000	•00•		0-00))			
				* STREET, SALES				A				
								Ţ	0			
	Α						S	T .	P E		s	
	Ī	MS					Ï	N	R		Ü	
FN	R	AE					Ε	Ü	A		В	
LU	C					E	L		Ţ	_ E	ET	
IM	1 1 1 1	IÑ				BP	Ď	,		~P	PO	er en
G8 HE	AY	UN				AN SD	I	I	N :	NN ED	NT DA	
	TE			B	PFN	EB	Ğ	N	S	TB	BL	
			DIAGNOSTIC	FOR 23	ARPT AV	SAMS	DRFN	BD 198	1 MAX	GW ATA	6-3DG	CURFEW 30
1	3	1	17100.00	0.00	15200.0	79.6	3.0	10.0	-2.2	64.4	64.4	
•												
2	-3	3	1151.33	90.00	2500.0	102.4	0.0	0.0	-2.2	100.2	100.2	
3	4	. 1	17100-00	0.00	15200-0	78.4	3.0	10.0	12-1	77.5	100.2	
4	-4	<u>3</u>	1151.33	90.00	2500.0	86.7	0.0	0.0	12-1	98.8	102.6	
5	19	. 1	17100.00	0.00	13160.0	58.7	3.0	10.0	16.0	61.7	102.6	
6	-19	3.	1109.53	90.00	2100.0	84.5	0.0	0.0	16.0	100.5	104.7	
7	15	· 1	17100.00	0.00	15200.0	80.9	3.0	10.0	10.4	78.3	104.7	
8	-15	3	1151.33	90.00	2600.0	93.7	0.0	0.0	10.4	104.0	107.4	
9	2	1	17100.00	0.00	35300.0	76.3	3.0	10.0	24.7	88.0	107.4	
10	-2	3	1193.09	90.00	8400.0	87.4	0.0	0.0	24.7	112.1	113.4	
11	12	1	17100-00	0.00	12750-0	70-1	3-0	10.0	21.2	78.3	113.4	
												•
			1193.09									
13	1	1	17100.00	0.00	3355-0	74.0	3.0	10.0	20.2	81.2	113.9	
14	-1	2	942.05	90.00	1775.1	92.5	0.0	0.0	20.2	112.7	116.3	B747
					(а) Page	1.					

Figure A-27.- 23-Airport, curfew JT3D, 1981 - standard takeoff, two-segment approach, SAM JT3D, RFN JT8D.

15 10 1 17100.00 0.00 12900.0 74.0 3.0 10.0 24.3 85.3 116.3

16 -10 3 1193.09 90.00 1800.0 88.3 0.0 0.0 24.3 112.6 117.9 B727 RFN

17 18 1 17100.00 0.00 43250.0 81.9 3.0 10.0 19.2 88.1 117.9

18 -18 3 1193.09 90.00 8400.0 85.6 0.0 0.0 19.2 104.9 118.1

0.00)

ANALYSIS FOR OBSERVER AT (48707.00.

					Mayor		s	T	O P		• •	
	. A						H	E	Ε		S	
FN	I R	MS					I	N	R		Ü	
LU	C	XG				E	E	U	A T	Ε	B ET	
IM		IM			-	. BP	Ď	Î	i	P	PO	
GB	AY	ME				AN	Ī	Ì	ō	NN	NT	
HE		UN				SD	N	0	N	ED	DA	
TE	TE	MT	Н	В	PFN	EB	G	N	S	TB	BL	
7		C	IAGNOSTIC	FOR 23	ARPT AVG	S AM3	DRFN	8D 198	1 MAX	SW ATA	6-3DG	CURFEW 3D
1	3	4	2963.64	90.00	12600.0	99.6	0.0	0.0	-2.2	97.4	97.4	
2	-3	1	41737.00	0.00	5100.0	46.9	3.0	15.0	-2.2	26.7	97.4	
3	4	4	2963.64	90.00	12600.0	93.2	0.0	0.0	12.1	105.3	106.0	
4	-4	1	41737.00	0.00	5100.0	43.2	3.0	15.0	12.1	37.3	106.0	
5	19	6	5798.81	90.00	11000.0	72.4	0.0	0.0	16.0	88.4	106.0	
6	-19	1	43957.00	0.00	3660.0	32.1	3.0	15.0	16.0	30.1	106.0	
7.	15	4	2963.64	90.00	12600.0	95.2	0.0	0.0	10.4	105.6	108.8	
8	-15	1	41737.00	0.00	5208.0	56.1	3.0	15.0	10.4	48.5	108.8	
9	2	4	2613-10	90.00	27400.0	89.3	0.0	0.0	24.7	114.0	115.1	DC 10

(b) Page 2. Figure A-27. - Continued.

10	-2	, 1	42207.00	0.00	12100.0	41.1	3.0	15.0	24.7	47.8	115.1	
11	12	5	5429.37	90.00	11300.0	76.4	0.0	0.0	21.2	97.6	115.2	
12	-12	1	42787.00	0.00	5370.0	46.3	3.0	15.0	21.2	49.5	115.2	
13	-1	: 3	2673.80	90.00	2800.0	90-8	0.0	0.0	20.2	111.0	116.6	1
14	-1	1	40907.00	0.00	2281.0	46.2	3.0	15.0	20.2	48.4	116.6	<u>!</u>
15	10	5	4485.66	90.00	11200.0	86.8	ó•ŏ	0.0	24.3	111.1	117.7	B727 RFN
16	-10	- 1	42907.00	0.00	4330.0	58.4	3.0	15.0	24.3	64.7	117.7	
17	18	5.	3874-63	90.00	33600.0	86.9	0.0	<u>0</u> •0	19-2	106-1	118.0	
18	-18	1	42207.00	0.00	12100-0	39.3	3.0	15.0	19.2	40.5	118.0	

(c) Page 3. Figure A-27.- Concluded.

				•			~	Α			>1	
	A I	MS					S H I	T T E N	O P E R		S	**************************************
N M B E	AY FP	XG IM ME UN				BP AN SD	ELDLIN	U	T I O N	E P NN ED	ET PO NT DA	resta -
R 	TE		H DIAGNESTIC		PFN AIRPORT	EB AVG	G 1981	N BÂSE	S M AXGW	TB FAR	8L 3DEG	CURFEW 3
1		. 1	42969.00	0.00	3355.0	57.5	3.0	10.0	20.2	64.6	64.6	
2	-1	3	2295.93	90.00	2305.0	87.7	0.0	0. 0	20.2	107.9	107.9	
3	.3	1	42969.00	0.00	14500.0	62.2	3.0	10.0	12.3	61.5	107.9	
4	-3	2	2295.93	90.00	5100.0	97 . £	0.0	0.0	12.3	109.3	111.6	B707
5	7	1	42969.00	0.00	12290.0	69.5	3.0	10.0	23.9	80.4	111.6	
•	-7	2	2255.93	90.00	4330.0	90.2	0.0	0.0	23.9	114.1	116.1	B727
7	17	1	42969.00	0.00	12460.0	62.6	3.0	10.0	16.0	65.6	116.1	magnetic participation of the control of the contro
1	-17	2	2295.93	90.00	3660.0	84.5	0.0	0.0	16.0	100.5	116.2	
· .	14	1	42969.00	0.00	15200.0	64.7	3.0	10.0	10.4	62.1	116.2	
)	-14	2	2255.93	90.00	5208.0	97.6	0.0	0.0	10.4	108.0	116.8	naming Sergis
	2	1	42969.00	0.00	35300.0	65.9	3.0	10.0	24.7	77.6	116.8	
?	-2	2	2295.93	isi Kali				esid.		an i		
3	11	1			erala _e .							
	-11	2	2295.93	90.00	5411.0	87.5	0.0	0.0	21.2	108.7	117.9	Property of the Control of the Contr

Figure 28. - 23-Airport, curfew JT3D,1981 - cutback takeoff, standard approach.

15	18	1	42969.00	0.00	43250.0	72.8	3.Õ	10.0	19.2	79.0	117.9
16	-18	2	2295.93	90.00	12100.0	81.3	0.0	00	19.2	100.5	118.0
17	8	1	42969.00	0.00	12290.0	68.6	3.0	10.0	14-1	69.6	118.0
18	-8	2	2295.93	90.00	4330.0	84.6	0.0	0.0	14.1	98.6	118.0

AN	ALYS	IS F	OR CBSERV	ER AT (82874	.00,		0.00))			
FN LU IM GB HE TR	R C RT AY	MS AE XG IM ME UN MT			PFN	E BP AN SD EB	S H I E L D I N G	ATTENUATION	O P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
		c	IAGNESTIC	FOR 23	AIRPORT	AVG	1981	BASE	MAXGW	FAR	3DEG	CURFEW 3D
1	1	5	3702.98	90.00	2800.0	86.3	0.0	0.0	20.2	106.5	106.5	
2	-1	1	75074.00	0.00	2281.0	36.3	3.0	15.0	20.2	38.5	106.5	
3	3	5	3318.62	90.00	12080.0	98.0	0.0	0.0	12.3	110.2	111.8	B707
4	-3	1	75904.00	0.00	5100.0	35.8	3.0	15.0	12.3	30.1	111.8	
5	7	.a.ra . 5	4153.37	90.00	8060.0	90.5	0.0	0.0	23.9	114.4]116.3	B727
6	-7	1	77074.00	0.00	4330.0	37.9	3.0	15.0	23.9	43.8	116.3	
7	17	5	6757.50	90.00	8330.0	78.6	0.0	0.0	16.0	94.6	116.3	
8	-17	1	78124.00	0.00	3660.0	28.8	3.0	15.0	16.0	26.8	116.3	

(b) Page 2. Figure A-28.- Continued.

9	14	4	3298.97	90.00	11530.0	99.6	0.0	0.0	10.4	110.0	117.2	•
10	-14	1	75904.00	0.00	5208.0	8.5	3.0	15.0	10.4	0.8	117.2	
11	2	5	3737.84	90.00	25800.0	83.6	0.0	0.0	24.7	108.2	117.7	
12	-2	1	76374.00	0.00	12100.0	32.1	3.0	15.0	24.7	38.7	117.7	
13	11	5	7562.64	90.00	9600.0	79 . 5	0.0	ō. 0	21.2	100.7	117.8	
14	-11	1	76954.00	0.00	5411.0	32.2	3.0	15.0	21.2	35.5	117.8	
15	18	6	6249.23	90.00	31600.0	79.3	0.0	0.0	19.2	98.6	117.9	
16	-18	1	76374.00	0.00	12100.0	30.3	3.0	15.0	19.2	31.5	117.9	
17	8	5	4153.37	90.00	8060.0	88.7	0.0	0.0	14.1	102.7	118.0	
18	- 8	1	77074.00	0.00	4330.0	37.5	3.0	15.0	14.1	33.5	118.0	

(c) Page 3. Figure A-28.- Concluded.

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	 A	-		1 - 1 <u>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -</u>	<u> </u>	- . •	S _i :	Ţ	P		Š	4. 22 1 (14 (4)
	T	MS					1	N	R		J U	
FN	R	AE					_		Ā		В	
้เบ	C	XG	1		1	E	[A	T	E	ET	
IM		IM		1. 1.	***	BP		· T	I	P	PO	
GB		ME				AN	I	Į.	. 0	NN	NT	
HE		UN	" Н	В	DEN	SD	N G	D N	N S	ED TB	DA BL	
	(E											
-	•	Ĩ	IAGNOSTIC	FOR 23	AIRPORT	AVG	BASE	1981	MAXG	FAR	6-3DEG	CURFEW 3D
			22924.00		77557 4					***	53	
ı	, . <i>f</i>		22924.00	0.00	12290.0	78.8	3.0	10.0	23.9	89.67	89.7	
								•				
- ž	-7	3	1801.86	90.00	1800.0	91.3	0.0	0.0	23.9	115.2	1115.2	B127
											•	
_									ويد يجيج	in a second of the second of t		
3	17	1	22924.00	0.00	12460.0	72.2	3.0	10.0	16.0	75.2	115.2	
4	-17	3	1617.12	90.00	2100-0	86.5	0.0	0.0	16.0	102.5	115.4	
	- T.											
				•					44.11			
5	2	1	22924.00	0.00	35300.0	73.0	3.0	10.0	24.7	84.7	115.4	
6	2	3	1801.86	90.00	8400.0	82.1	0.0	0.0	24.7	106.7	116.0	
	-	-	100100	7000	0,0000	02.0	0.0	•••		1000	*****	
	- 11											
7	11	1	22924.00	0.00	12200.0	76.2	3.0	10.0	21.2	84.4	116.0	
- 6	_11		1801.86	90 00	2000 0	05 4	7 7	<u> </u>	21 2	104 0	714 6	
			1001.00	70.00	2000.0	0,00	0.0	0.0	~1.C	100.0	110.5	
9	8	1	22924.00	0.00	12290.0	78.2	3.0	10.0	14.1	79.2	116.5	· · · · · · · · · · · · · · · · · · ·
			•									
10			1801.86	00.00	1000 0	- 00 E	0 0				 -	
10		2	1001.00	90.00	1900-0	80.5	0.0	0.0	14.1	94.6	110.0	
			Y						· ·			
11	18	1	22924.00	0.00	43250.0	79.0	3.0	10.0	19.2	85.2	116.5	
			•									
			متعودونات والواروسان الماك								ان بیش دارهایسیده	
12	-18	3	1801.86	90.00	8400.0	80.3	0.0	0.0	19.2	99.5	116.6	
w 1												
13	1	1	22924.00	0.00	3355.0	68.7	3.0	10.0	20.2	75.9	116.6	***
ر. مدادر سیم را			es Myser og en og egypteter annabet en skale e				· .					
14	-1	3	1489.81	90.00	1615.0	85.9	0.0	0.0	20.2	106.1	117.0	

(a) Page 1.

Figure A-29. - 23-Airport, curfew JT3D, 1981 - cutback takeoff, two-segment approach.

ANA	LYS	S F	OR OBSERVE	RAT	82901	00,		0.00)			
FN LU IM GB HE TR	R C RT AY FP	MS AE XG IM ME UN MT	H	В	PFN	E BP AN SD EB	S H I E L D I N G	A T T E N U A T I		E P NN ED TB	S U B ET PO NT DA BL	
		ם	IAGNOSTIC	FOR 23	AIRPORT	ĀVG	RASE	1981	MAXGW	FAR	6-3DEG	CURFEW 3D
1	7	5	4154.58	90.00	8060.0	90.5	0.0	0.0	23.9	114.4	7114.4	B727
2	-7	1	77101.00	0.00	4330.0	37.9	3.0	15.0	23.9	43.8	114.4	the second of th
3	17	5	6759.49	90.00	8330.0	78.6	0.0	0.0	16.0	94.6	114.4	
4	-17	1	78151.00	0.00	3660.0	28.8	3.0	15.0	16.0	26.8	114.4	
5	2	5	3739.16	90.00	25800.0	83.5	0.0	0.0	24.7	108.2	115.3	
6	-2	1	76401.00	0.00	12100.0	- 32 .1	3.0	15.0	24.7	38.7	115.3	
7	11	5	7565.09	90.00	9600.0	79.5	0.0	0.0	21.2	100.7	115.5	
8	-11	1	76981.00	0.00	5411.0	32.2	3.0	15.0	21.2	35.4	115.5	
9	8	5	4154.58	90.00					14.1	102.7	115.7	
						(b) Pa	ige 2	•				

Figure A-29. - Continued.

10	-8	1	77101.00	0.00 4330.0	37.5	3.0	15.0	14.1	33.5	115.7	
11	18	6	6251.47	90.00 31600.0	79.3	0.0	0.0	19.2	98.6	115.8	
12	-18	1	76401.00	0.00 12100.0	30.3	3 . 0	15.0	19.2	31.5	115.8	
13	1	5	3704.53	90.00 2800.0	86.3	0.0	0.0	20.2	106.5	116.3	je anderestingen er
14	-1	1	75101.00	0.00 2281.0	36.3	3.0	15.0	20.2	38.5	116.3	
15	14	4	3300.05	90.00 11530.0	99.6	0.0	0.0	10.4	109.9	117.2	n. salan halin parasan (Milisalitin) i Tayasani
16	-14	. 1	75931.00	0.00 5208.0	8.5	3.0	15.0	10.4	0.8	117.2	
17	3	5	3319.69	90.00 12080.0	98.0	0.0	0.0	12.3	110.2	118.0	8707
18	-3	1	75931.00	0.00 5100.0	35.8	3.0	15.0	12.3	30.1	118.0	

(c) Page 3. Figure A-29.- Concluded.

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		***	• · · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	er ex	S	Ţ	G P			
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FN	Ь 1	MS					T E	اد. زا	R A		. U ප	
LU	(XG IM				6 P	L	A.	T		<u>F</u> T	· · · · · · · · · · · · · · · · · · ·
GB	AY	ME				ΔN	I	ľ	Ü	NN	PU , NT	
HF TR		UN	•	8	PFN	SD Eb	N G	O N	N S	ED To	υΔ ۵۱	
												
			DIAGNESTIC	FUK 23	AIRPLKI	AVG	1901	311130	MAXGN	L FAK S)-3 CEG	CORPEM 30
111	7	1	21457.00	0.00	12290.0	79.7	3.0	10.0	23.9	90.6	90.U	
2	-7	3	1652.70	90.00	1800.C	52.2	0.0	0.0	23.9	116.1	110.1	B727
3	17	1	21457.00	0.00	12460.0	73.2	3.0	10.0	10.0	76.2	115.1	
4	-17	3	1492.75	90.00	2100.0	67.5	0.0	2.0	16.0	103.5	110.5	
5	2	1	21497.00	0.00	35300.0	73.7	3.0	10.0	24.7	85.4	وءبالم	
6	-2	3	1652.70	90.00	8400.0	83.2	0.0	0.0	24.7	107.8	116.9	- 1
7.	11	1	21457.00		12200.0	76.9	3.0	10.0	21.2	85.2	110.9	
8	-11	3	1652.70	90.00	2800 <u>.0</u>	86.7	0.0	0.0	21.2	107.9	117.4.	009_
9	8	1	21457.00	0.00	12290.0	_79.2	3.0	10.3	14.1	80.2	117.4	
10	-3	3	1652.70	90.00	1800.0	81.3	0.0	0.0	14.1	95.4	117.5	general graph of
11	18	1	21457.00	0.00	43250.0	79.6	3.0	10.0	19.2	85.9	117.00	
12	-18	3	1652.70	90.00	8400.0	81.4	0.0	0.0	19.2	100.6	117.5	
13	1	.1	21457.00	0.00	3355.0	69.5	3.0	10.0	20.2	77.1	117.5	an and the second

(a) Page 1.

14 -1 3 1353.04 90.00 1615.0 87.0 0.0 0.0 20.2 107.2 117.9

Figure A-30. - 23-Airport, curfew JT3D, 1981 - cutback takeoff, two-segment approach, SAM JT3D.

```
15 15 1 21457.00 0.00 15200.0 77.1 3.0 10.0 10.4 74.5 117.9
16 -15 3 1572.76 90.00 2000.0 90.2 0.0 0.0 10.4 100.5 118.0
17 3 1 21457.00 0.00 14500.0 74.3 3.0 10.0 -2.2 55.0 118.0
18 -3 3 1572.76 90.00 2500.0 98.5 0.0 0.0 -2.2 96.3 118.0
19 4 1 21457.00 0.00 14500.0 72.8 3.0 10.0 12.1 72.0 118.0
20 -4 3 1572.76 90.00 2500.0 83.5 0.0 0.0 12.1 95.6 116.1
ANALYSIS FOR CESERVER AT ( 73436.00, 0.00)
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FN R AF
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        CTAGNESTIC FUR 23 ATRPERT AVG 1981 SAMED MAXGW FAR 6-3DEG CURFEW 3D
 1 7 5 3728.53 90.00 8060.0 91.5 0.0 0.0 23.9 115.4 115.4 B727
 2 -7 1 67636.00 0.00 4330.0 40.1 3.0 15.0 23.9 46.0 115.4
 3 17 5 6061.35 90.00 8330.0 80.0 0.0 0.0 16.0 96.1 115.5
 4 -17 1 68686.00 0.00 3660.0 30.9 3.0 15.0 16.0 29.0 115.5
 5 2 5 3275.15 90.00 25800.0 85.1 0.0 0.0 24.7 109.8 116.5 DC/D
 6 -2 1 66936.00 0.00 12100.0 34.1 3.0 15.0 24.7 40.7 116.5
 7 11 5 6767.25 90:00 9600.0 81.1 0.0 0.0 21.2 102.3 116.7
```

(b) Page 2.

Figure A-30.- Continued.

3	-11 _1	67516.00	0.00	5411.0	34.5 3.0	15.0	21.2	37.7 116.7	Me in public a material space .
9	8 5	3728.53	90 <u>•</u> 00	8060.0	89.7 0.0	0.0	14.1	103.7 116.9	
10	-8 1	67636.00	0.00	4330.0	39.5 3.0	15.0	14.1	35.6 116.9	100 mg 10
11	18 6	5464.40	50.00	31600.C	80.9 0.0	0.0	19.2	130.1 117.0	
12	-18 1	66936.00	0.00	12100.0	32.3 3.0	15.0	19.2	33.5 117.0	
13	1 4	3206.74	90.00	2800.0	88.2 0.0	0.0	20.2	108.4 117.5	* ***
14	-1 1	65636.00	0.00	2281.0	38.5 3.0	15.0	23.2	40.7 117.5	
15	15_4	2920.40	90.00	11530.0	92.6 0.0	<u>U.</u> U_	10.4	103.0 117.7	
16	-15. 1	66466.00	0.00	5208.0	0.د د.50	15.0	10.4	42.7 117.7	
1 17	3 _ 5	2941.50	50.00	12080.0	99.5 0.0	0.0	-2.2	97.3 117.7	· · · · · · · · · · · · · · · · · · ·
18	-3 1	66466.00	0.00	5100.0	38.3 3.0	15.0	-2.2	18.1 117.7	
19	45	2941.50	90.00	12080.0	92.5 0.0	0.0	12.1	104.0 117.9	-
20	-4 1	66466.00	0.00	5100.0	35.3 3.0	15.0	12.1	29.4 117.9	

(c) Page 3.

Figure A-30.- Concluded.

0.00 43250.0 82.0 3.0 10.0 19.2 38.2 115.0 18 16948.00 10 -18 3. 1177.20 90.00 8400.0 85.8 0.0 0.0 19.2 105.0 115.4

0.00 12290.0 82.8 3.0 10.0 24.3 94.1 113.8

90.00 1800.0 84.5 0.0 0.0 24.3 108.9 115.0

11 16948.00 3355.0 74.1 3.0 10.0 20.2 81.3 115.4 0.00

7

1177.20

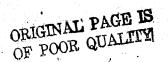
12 -1 934.09 90.00 1876.5 93.6 0.0 0.0 20.2 113.8 117.7 B747

1 16948.00 0.00 15200.0 81.0 3.0 10.0 10.4 78.4 117.7

14 -15 3 90.00 2600.0 93.8 0.0 0.0 10.4 104.2 117.9 1136.76

(a) Page 1.

Figure A-31. - 23-Airport, curfew JT3D, 1981 - cutback takeoff, two-segment approach, SAM JT3D, SAM JT8D.



```
15 3 1 16948.00 0.00 14500.0 78.4 3.0 10.0 -2.2 63.2 117.9

16 -3 3 1136.76 90.00 2500.0 102.6 0.0 0.0 =2.2 100.3 118.0

17 4 1 16948.00 0.00 14500.0 76.5 3.0 10.0 12.1 75.6 118.0

18 -4 3 1136.76 90.00 2500.0 86.8 0.0 0.0 12.1 78.7 118.0
```

AN	ALYS	IS F	OR ORSER	RVER AT (67465	.00,		0.0	0)			
FU IM GR HE TR	R C RT AY FP	MS AE XG IM ME UN MT			PEN	E BP AN SD EB	S H I E L D I	U	O RERATIONS	P NN ED TB	S !) B FT PO NT OA BL	
			DIAGNOSTI	C FOR 23	AIRPORT	AVG	1981	SAM :	១០៩,৪០ [MAXGW	FAR6-30	FG CURFLW 30
1	20	5	5620.9	90.00	8330.0	81.2	2.0	0.0	16.0	97.3	97.3	
2	-20	·	62715.0	0.00	3660.0	33.6	3.0	15.0	<u>i6.0</u>	. 31.6	<u>9</u> 7.3	
3	2	4	3038.6	6 90.00	27400.0	87.6	0.0	0.0	24.7	112.2	112.4	DCIO
4	-2	1	60965.0	0.00	12100.0	35.5	3.0	15.0	24.7	42 <u>.</u> 2	112.4	
5	6	5	6166.0	90.00	9600.0	80.6	0.0	0.0	21.2	101.9	112.9	
6	-6	1	61545.0	00 c<u>.</u>00	5411.0	46.0	3.0	1 <u>5.</u> 0	21.2	49•2	112.8	A 10 mar 1 m
7	8	5	3459.7	'5 90 . 00	8060•0	90.2	0.0	0.0	24.3	114.6	116.3	13727 SAM
8	-8	1	61665.0	0.00	4330.0	41.0	3.0	15.0	24.3	47.3	116.8	-

(b) Page 2. Figure A-31.- Continued.



9	18	6	4967.88	90.00	31600.0	82.0	0.0	0.0	19.2	101.2 116.9	
10	-18	1	60965.00	0,00	12100.0	33.7	3.0	15.0	19.2	34.9.116.9	
11	1	4	3141.09	90.00	2800.0	88.5	0.0	0.0	20.2	108.7 117.5	
12	-1	1	59665.00	0.00	2281.0	40.1	3,0	15.0	20.2	42.3 117.5	
13	15	4	2680.57	50 <u>.</u> 00	11530.0	93.5	0 <u>.c</u>	ຸວ. າ	10.4	103.9 117.7	
14	-15	1	60495.00	0.00	5208.0	51.5	3.0	15.0	10.4	43.8 117.7	
15	3	5	2702.91	90.00	12080.0	100.6	0.0	0.0	-2.2	98.3 117.7	
16	-3	1	60495.00	0.00	5100.0	40.0	3.0	15.0	-2.4	19.8 117.7	
17	4	5	2702.91	90.00	12080.0	93.3	0.0		12.1	105.4 118.0	د پیچید معتدیدید
18	-4	1	60495.00	0.00	5100.0	36.9	3.0	15.0	12.1	31.0 118.0	



(c) Page 3.
Figure A-31.- Concluded.

AN	ALYS!	IS F	OR CUSERVE	TA (-16998	.00,		0.00)			
FN LU IM GB HE TR	R C RT AY FP	MS AE XG IM ME UN MT		8	PFN	E BP AN SD EB	S H I E L D I N G		O P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
)	IAGNESTIC F	OR 23	AIRPERT	AVG	1981	SAM3D	R 8D 1	1AXGW I	FAR 6-3	DEG CURFEW 3D
	2	1	17098.00	C-00	35300.0	76.3	3.0	10.0	24.7	0.88	88.0	
2		3	1192.88	90.00	8400.0	87.4	0.0	0.0	24.7	112.1	112.1	
خ	1.8	1	17098.00	C-00	43250.0	81.5	3.0	10.0	19.2	88.1	112.1	
4	-18	3	1192.88	9 C. 00	8400.0	85.6	0.0	0.0	19.2	104.9	112.9	
כ	ı	1	17098.00	C. 00	3355.0	74.C	3.0	10.0	20.2	81.2	112.9	
0	-1	2	941.94	9C.00	1776.4	92.5	0.0	0.0	20.2	112.7	115.8	B747
7	15	, 1	17098.00	0.00	15200.C	80.9	3.0	10.0	10.4	78.3	115.8	
8	-15	3	1151.13	90.00	2600.0	93.7	0.0	0.0	10.4	104.0	116.1	
Ą	3	1	17098.00	C-00	14500.0	78.3	3.0	10.0	-2.2	63.0	116.1	
10	 3	3	1151.13	90.00	2500.0	102.4	0.0	0.0	-2.2	100.2	116.2	
1.	4	1	17058.00	C.00	14500.0	76.4	3 • 0	10.0	12.1	75.5	116.2	
12	-4	3	1151.13	9 C •00	2500.0	86.7	0.0	0.0	12.1	98.8	116.3	

(a) Page 1.

C.00 12900.0 74.C 3.O 10.O 24.3 85.3 116.3

1192.88 90.00 1800.0 88.3 0.0 0.0 24.3 112.6 117.8 B727 RFN

Figure A-32. - 23-Airport, curfew JT3D, 1981 - cutback takeoff, two-segment approach, SAM JT3D, RFN JT8D.

14 -10 3

13 10 1 17098.00

15	12	1	17098.00	0.00	12750.C	7C.1	3.0	10.0	21.2	78.3	117.8
16	-ic	3	1192.88	90.00	2800.0	83.2	0.0	0.0	21.2	104.4	11840
17	19	1	17098.00	C.00	13160.0	58.7	3.0	10.0	16.0	01.7	118.0
18	-19	3	1109.35	90.00	2100.0	84.5	0 • C	0.0	16.0	100.5	118.1

ANALYSIS	FOR OBSERVE	ER AT (54506.	.CO,	0.00)		
					A			
				S	Ţ	υP		
I MS				H I	N	R		S U
FN R AE	*			E E L	U A	T	Ε	B ET
IM RT IN	•			BP D	Ţ	I 0	P NN	PO NT
HL FP UNTR TE MI		В	PFN	SD N EB G	0 N	N S	ED TB	DA BL

DIAGNESTIC FOR 23 AIRPERT AVG 1981 SAM3D R8D MAXGW FAR 6-3DEG CURFEW 3D

ı	4	4	2744.66	50.00	27400.0	8.98	0.0	0.0	24.7	113.4	7113.4	DC 10
2	-2	1	48006.00	C• 00	12100.0	35.1	3.0	15.0	24.7	45.8	113.4	
3	18	5	4154.87	90.00	33600.0	86.1	0.0	0.0	19.2	105.4	114-1	
4	-18	1	48906.00	c. 00	12100.0	37.3	3.0	15.0	19.2	38.6	114.1	
5	1	4	2998.60	90.00	2800.0	89.0	0.0	0.0	20.2	109.2	115.3	
0	-1	1	46706.CC	c. 00	2281.0	44.1	3.C	15.0	20.2	46.3	115.3	
7	15	4	2160.51	90.00	11530.0	95.7	0.0	0.0	10.4	106.1	115.8	
8	-15	1	47536.CO	C.00	5208.0	54.5	3.C	15.0	10.4	46.9	115.8	

(b) Page 2.

Figure A-32. - Continued.

, ,	3	5	2185.10	90.00	12080.0	103.2	0.0	0.0	-2.2	101.0	115.9		
10	-3	1	47536.CC	C•00	5100.0	44.5	3.0	15.0	-2.2	24.3	115.9		
11	4	5	2185.10	90.00	12080.0	95.3	0.0	0.0	12.1	107.4	116.5		
۱۷	-4	1	47536.00	C.00	5100.0	41.C	3.0	15.0	12.1	35.1	116.5		
13	10	5	3104.05	90.00	8230.0	88.0	0.0	0.0	24.3	112.3	117.9	B727	RFN
14	-10	1	48706.00	C.00	4330.0	57.0	3.0	15.0	24.3	63.4	117.9		
15	12	5	4972.22	96.00	9600.0	75.6	C.O	0.0	21.2	96.8	117.9		
16	-12	1	48586.CC	C.00	5370.0	44.8	3.0	15.0	21.2	4 E • O	117.9		
17	19	5	4884.57	5C.00	8390.0	74.7	0.0	0.0	16.0	90.7	117.9		
16	-19	1	4 5756.CC	C.00	3660.C	30.1	3.0	15.0	16.0	28-1	117.9		

(c) Page 3.

Figure A-32.- Concluded.

ANA	LYS	IS F	OR CBSERVE	ER AT. (-43290.	00,	0.00)		
	R	MS AE XG IM MF UN		В	PFN	E L BP D AN D	E U	A T E I P O NN N ED	S U B ET PO NT DA BL	
		ם	IAGNESTIC	FOR 23	ARPT AVG	BASE	1987 CUR	FEW 3D MAXG	W ATA 31	DG
1	3	1	43390.00	0.00	15200.0	63.8 3.	.0 10.0	12.0 62.7	62.7	
2	-3	2	∠3 17. 96	90.00	5100.0	96.8 0.	.0 0.0	12.0 108.8	108.8	
3	7	1	43390.00	0.00	12300.0	69.4 3.	.0 10.0	23.5 79.9	108.8	
4	-7	2	2317.96	90.00	4330.0	90.1 0.	.0 0.0	23.5 113.6	114.9	B727
5	17	1	43390.00	0.00	12600.0	62.8 3	.0 10.0	15.9 65.7	114.9	
								15.9 100.2		
7	14	1	43390.00	0.00	15200.0	64.6 3.	.0 10.0	10.1 61.7	115.0	
8	-14	2	2317.96	90.00	5208.0	97.5:0	.0 0.0	10.1 107.6	115.7	
9	2	1	43350.00	0.00	35300.0	65.8 3	.0 10.0	25.9 78.7	115.8	
								25.9 108.9		
11	11	j	43390.00	0.00	12200.0	68.6 3.	.0 10.0	21.1 76.7	116.6	
12	-11	2	2517.96	90.00	5411.0	87.4 0	.0.0	21.1 108.5	117.2	

Figure A-33.- 23-Airport, curfew JT3D, 1987 - standard takeoff, standard approach.

13	1	1	43390.00	0.00	3355.0	57.3	٥.٤	10.0	21.6	65.9	117.2	•
14	-1	3	2317.96	90.00	2305.0	87.6	0.0	0.0	21.6	109.1	117.8	B747
15	8	1	43350.00	J. 00	12300.0	68.4	3.0	10.0	14.9	70.4	117.8	
16	- 8	2	2317.96	90.00	4330.0	84.5	0.0	0.0	14.9	99.4	117.9	
17	18	1	43350.00	0.00	43250.0	72.7	3.0	10.0	21.4	81.1	117.9	
18	-18	2	2517.96	90.00	12100.0	81.2	0.0	0.0	21.4	102.6	118.0	
ANA	LYSI	S F	OR CESERVE	R AT (75756.	00,		0.00))			
		. *						Α				
							S	T. T	D P			
	٨						H	Ė	E		S	
	T	MS					I	- N:	R		U	
FN	R					-	E.	Ü	A	=	. B	
LU	r PT	XG TM				BP	L D	. Д Т	T I	E	ET Po	
GB	ΔY	ME				AN	Ī	Ī	ō	NN	NT	
HF.	FP	MU	. · · · h	в	DEN	SD EB	N G	O N	N S	ED TB	DA Bl	
		; b	IAGNOSTIC	FOR 23	ARPT AVG	BASE	198	7 CUR	FEW 30	MAXG	E ATA	Du
1	3	5	3391.80	90.00	12328.4	96.7	0.0	0.0	12.0	108.7	108.7	
. 2	-3	1	68786.00	0.00	5100.0	37.6	3 40	15.0	12.0	31.6	108.7	
3	7	6	6015.05	90.00	10230.0	89.8	0.0	0.0	23.5	113.3]114.6	B727
4.	-7	1	69956.00	0.00	4330.0	39.6	3.0	15.0	23.5	45•1	114.6	
5	17	6	7337.27	90.00	10300.0	83.4	0.0	0.0	15.9	96.2	114.6	
6	-17	1	71006.00	0. 00	3660.0	30.4	3.0	15.0	15.9	28.3	114.6	
					(b) P	age 2	•					

Figure A-33. - Continued.

, 7	14	5	3391.80	90.00	12328.4	98.3	0.0	0.0	10.1	108.4	115.6	
8 -	-14	1	68786.00	0.00	5208.0	11.3	3.0	15.0	10.1	3.4	115.6	
9	. 2	5	3388.88	90.00	25800.0	84.7	0.0	0.0	25.9	110.6	110.8	DCIO
10	- 2	1	69256.00	0.00	12100.0	33.6	3.0	15.0	25.9	41.5	116.8	
11	11	E	5624.61	90.00	. 0600 . 0	84.6	0.0	0.0	21.1	105.7	117.1	
12 ·	-11	1	69836.00	0.00	5411.0	33.9	3.0	15.0	21.1	37.0	117.1	
13	1	5	3296.97	90.00	2800.0	87.5	0.0	0.0	21.6	109.1	117.7	
14	-1	1	67556.00	0.00	2281.0	37.9	3.0	15.0	21.6	41.5	117.7	
15	e	6	6015.05	90.00	10230.0	88.8	0.0	0.0	14.9	103.7	117.9	
16	-8	1	69956.00	0.00	4330.0	39.0	3.0	15.0	14.9	35.9	117.9	
17	18	6	5657.32	90.00	31600.0	80.5	0.0	0.0	21.4	101.9	118.0	
18	-18	1	69256.00	0.00	12100.0	31.8	3.0	15.0	21.4	35.2	118.0	

(c) Page 3.
Figure A-33.- Concluded.

ΔN	ALYS	IS F	OR CBSERVE	R AT (-22815.	00,		0.00				
FN LU IM GE HF TR	R C RT AY	MS	1	В	PFN	E BP AN SD EB	S H I E L D I N G	ATTENUATION	O P E R A T I O N S	NN ED	S U B ET PO NT DA BL	
		. (DIAGNESTIC	FOR 23	ARPT AVG	BASE	198	37 MAX	SW AT	A 6-30) CI	JRFEW 3D
1	3	1	22915.00	0.00	15200.0	74.6	3.0	10.0	12.0	73.6	73.6	
2	3	3	1708.67	90.00	2500.0	97.5	0.0	0.0	12.0	109.5	109.5	B707
3	7	1	22915.00	0.00	12300.0	78.8	3.0	10.0	23.5	89.3	109.5	
4	-7	3	1800.92	90.00	1800-0	91.3	0.0	0.0	23.5	114.8	115.9	8727
	17	1	22915.00	0.00	12600.0	72.6	3.0	10.0	15.9	75.4	115.9	
(-17	3	1616.34	90.00	2100.0	86.5	0.0	0.0	15.9	102.3	116.1	
Ī	14	1	22915.00	0.00	15200.0	74.8	3.0	10.0	10.1	71.9	116.1	
8	3 -14	3	1708.67	90.00	2600.0	95.8	0.0	0.0	10.1	105.9	116.5	
(2	1	22915.00	0.00	35300.0	73.0	3.0	10.0	25.9	85.9	116.5	
10	-2	3	1800.92	90.00	8400-0	82.1	0.0	0.0	25.9	108.0	117.1	
1.1	11	1	22915.00	0.00	12200.0	76.2	3.0	10.0	21.1	84.3	117.1	
12	<u> </u>	3	1800.92	90.00		85.6 Page			21.1	106.7	117.5	

Figure A-34.- 23-Airport, curfew JT3D, 1987 - standard takeoff, two-segment approach.

13	1	1	22915.00	0.00	3355.0	68.7	3.0	10.0	21.6	77.3	117.5	
14	-1	3	1488.94	90.00	1615.0	86.0	0.0	0.0	21.6	107.5	117.9	
15	8	1	22915.00	0.00	12300.0	78.2	3.0	10.0	14.9	80.1	117.9	
16	-8	. 3	1800-92	90.00	1800.0	80.5	0.0	0.0	14.9	95.5	117.9	
17	1.8	1	22915.00	0.00	43250.0	79.0	3.0	10.0	21.4	87.4	117.9	
18	-18	, · . 3	1800.92	90.00	8400.0	80.3	0.0	0.0	21.4	101.7	118.0	
ΆN	ALYS	IS	FOR CBSERVE	R AT (75951.	00.		0-00				
		••						Α				
							S	Ţ	0			
	Α			-			Н		F		s	
1 24		MS					1	TN .	ĸ		Ŭ	
FN		AE				_	Ε	U	A		8	
LU		XG IM				E BP	Ľ.			E	ET	
GB						AN	ı	1	U I	NN	PO NT	
HF	FP	UN				SD	N	Ô	N	ED	DA	
TR	TE	MT	Н	В	PFN		G		S			
			DIAGNOSTIC	FOR 23	ARPT AVG	BASE	198	37 MAX	GW ATA	6-3D	CU	RFEW 3D
1		6	3399.31	90.00	12300.0	96.6	0.0	0.0	12.0	108.5	108.5	
2	-3	. 1	68981.00	0.00	5100.0	37.6	3.0	15.0	12.0	31.6	108.5	
3	7	6	6039.39	90.00	10230.0	89.7	U.O	0.0	23.5	113.2	114.5	B727
4	-7	1	70151.00	0.00	4330.0	39.5	3.0	15.0	23.5	45.0	114.5	
5	17	6	7356.30	90.00	10300.0	80.3	0.0	0.0	15.9	96.2	114.6	
6	-17	1	71201.00	0.00		30.3 age 2		15.0	15.9	28.2	114.6	
	and the first self						1.44.1	Programme and the				

Figure A-34. - Continued.

7	14	6	3399.31	90.00	12300.0	98.2	0.0	0.0	10.1	108.3	115.5	
8	-14	1	68981.00	0.00	5208.0	11.2	3.0	15.0	10.1	3.3	115.5	
9	2	5	3398.44	90.00	25800.0	84.7	0.0	0.0	25.9	110.6	116.7	DC10
10	-2	1	69451.00	0.00	12100.0	33.5	3.0	15.0	25.9	41.4	11.6.7	
11	11	6	5645.56	90.00	10600.0	84.5	0.0	0.0	21.1	105.7	117.0	
12	-11	1	70031.00	0.00	5411.0	33.8	3.0	15.0	21.1	37.0	117.0	
13	1	5	3308.09	90.00	2800.0	87.5	0.0	0.0	21.6	109.1	117.7	
14	-1	1	68151.00	0.00	2281.0	37.9	3.0	15.0	21.6	41.5	117.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
15	8	6	6039.39	90.00	10230.0	88.7	0.0	0.0	14.9	103.7	117.9	
16	-8	1	70151.00	0.00	4330.0	39.0	3.0	15.0	14.9	35.9	117.9	
17	18	6	5673.54	90.00	31600.0	80.5	0.0	0.0	21.4	101.9	118.0	
18	-18	1	69451.00	0.00	12100.0	31.7	3.0	15.0	21.4	35.1	118.0	

(c) Page 3.
Figure A-34.- Concluded.

Δ	NA	LYS	IS F	OR CBSERVE	ER AT (-21612	.00,		0.00	1			
F L I G H T	U M B E	R C RT AY FP	XG IM ME UN		**************************************	PFN	E BP AN SD EB	S H I E L D I N G	A T T E N U A T I O N	O P E R A T I O N S	E P NN ED TB	S U B E T P O N T D A B L	
-			(DIAGNOSTIC	FOR 23	APT AVG	SAM3D	1987	MAXG	W ATA	6-3DG	C	URFEW 3D
	1	. 3	1	21712.00	0.00	15200.0	75.6	3.0	10.0	0.8	63.4	63.4	
	2	- 3	3	1593.37	90.00	2500.0	98.3	0.0	0.0	0.8	99.1	99.1	
	3	4	1	21712.00	0.00	15200.0	74.8	3.0	10.0	11.6	73.4	99.2	
	4	-4	3	1593.37	90.00	2500.0	83.4	0.0	0.0	11.6	95.0	100.6	
	5	7	1	21712.00	0.00	12300.0	79.6	3.0:	10.0	23.5	90.1	100.9	
	6	-7	3	1675.18	90.00	1800.0	92.0	0.0	0.0	23.5	115.6	115.7	B727
	7	17	1	21712.00	0.00	12600.0	73.4	3.0	10.0	15.9	76.3	115.7	
	8 -	-17	3	1511.49	90.00	2100.0	87.3	0.0	0.0	15.9	103.2	115.9	
•	9	15	1	21712.00	0.00	15200.0	77.0	3.0	10.0	10.1	74.1	115.9	
(0 -	-15	3	1593.37	90.00	2600.0	90.0	0.0	0.0	10.1	100.1	116.1	
1.	1	2	1	21712.00	U.00	35300.0	73.6	3.0	10.0	25.9	86.5	116.1	
1.	2	-2	3	1675.18	90.00	8400.0	83.0	0.0	0.0	25.9	108.9	116.8	DC 10
						(a)	Page	1.					

Figure A-35. - 23-Airport, curfew JT3D, 1987 - standard takeoff, two-segment approach, SAM JT3D.

12	11	,	21712-00	0.00	12200 0	76.8 3.0 10.0	21 1 02 6 1	14. 0
			21112.00	0.00	12200.0	7000 300 1000	21.1 04.7	10.0
14	-11	3	1675.18	90.00	2800.0	86.5 0.0 0.0	21.1 107.6	17.3
15	1	1	21712.00	0. 00	3355.0	69.7 3.0 10.0	21.6 78.3 1	17.3
16	-1	3	1373.64	90.00	1615.0	86.9 0.0 0.0	21.6 108.4	17.9
1.7	8	1	21712.00	0.00	12300.0	79.0 3.0 10.0	14.9 81.0 1	17.9
18	-8	3	1675.18	90.00	1800.0	81.2 0.0 0.0	14.9 96.2 1	17.9
19	18	1	21712.00	0.00	43250.0	79.5 3.0 10.0	21.4 88.0 1	17.9
20	-18	3	1675-18	90.00	8400.0	81.2 0.0 0.0	21.4 102.6 1	.18.0

ANA	LYS	IS f	FUP	OBS	SER	/ER	AT	(7320	0.0	0,		(0.0	0)				
									-						A					
															Ţ		0			
	Δ												S		E		P		S	
	ĵ	MS						•					1		N		R		U	i.
FN LU	R C	A.E.										F	E		.U A		A T	F	B E T	
IM	RT	IM	İ									BP	D		T		1	P	PO	ŀ
GB. HĒ	AY FP	ME										AN SD	I		·I n.		O.	- NN ED	NT DA	
TR	TE	MT		Н				В.		PFN		EB	G		N		S	TB	BL	

DIAGNESTIC FOR 23 APT AVG SAM3D 1987 MAXGW ATA 6-3DG CURFEW 3D

1 3 5 3353.43 90.00 12600.0 97.7 0.0 0.0 0.8 98.5 98.5
2 -3 1 66230.00 0.00 5100.0 38.3 3.0 15.0 0.8 21.1 98.5
3 4 5 3353.43 90.00 12600.0 91.7 0.0 0.0 11.6 103.4 104.6
4 -4 1 66230.00 0.00 5100.0 35.4 3.0 15.0 11.6 29.0 104.6
(b) Page 2.

Figure A-35. - Continued.

5	· , 7	6	5090.03	90.00	10230.0	90.4	0.0	0.0	23.5	113.9	114.4	B727
6	-7	1	67400.00	0.00	4330.0	40.2	3.0	15.0	23.5	45.7	114.4	
7	17	6	7067.86	90.00	10300.0	80.8	0.0	0.0	15.9	96.7	114.5	
8	-17	1	68450.00	J.00	3660.0	31.0	3.0	15.0	15.9	28.9	114.5	
4	15	5	3353.43	90.00	12600.0	93.6	0.0	0.0	10.1	103.7	114.8	
10	-15	1	66230.00	0.00	5208.0	50.3	3.0	15.0	10.1	42.5	114-8	
11	2	5	3263.58	90.00	25800.0	85.2	0.0	0.0	25.9	111.1	110.4	DCID
12	-2	1	66700.00	0.00	12100.0	34.1	3.0	15.0	25.9	42.0	116.4	
15	11	6	5349.89	90.00	10600.0	85.2	0.0	0.0	21-1	106.4	116.8	
14	-11	1	67280.00	0.00	5411.0	34.5	3.0	15.0	21-1	37.0	116.8	
15	1	4	3264.14	90.00	2800.0	88.3	0.0	0.0	21.6	109.9	117.0	
16	-1	1	65400.00	0.00	2281.0	38.6	3.0	15.0	21.5	42.2	117.6	
17	8	6	5696.03	90-00	10230.0	89.5	0.0	0.0	14.9	104.4	117.8	
18	- 8	1	67400.00	0.00	4330.0	39.6	3.0	15.0	14.9	36.5	117.8	
19	18	É	5444.77	90.00	31600.0	80.9	0.0	0.0	21.4	102.4	117.9	
20	-18	1	66700.00	0.00	12100.0	32.3	3.0	15.0	21.4	35.8	117.9	

(c) Page 3.
Figure A-35.- Concluded.

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	Δ					·		Н	E	E		S	
	I	MS						Ī	N	R		Ū	
V	Ŗ	AE						E	U	A		В	
J	ŗ	ХG				1. 1. 1. 1. 1. 1.	E	L	A	T	E	ET	
٠	RT	MY					BP	D	T	Ī	Ρ	PU	
3	AY	ME					- AN	I	1	0	Nu	NT	
•	FP	UN		H.121. 21. 11			SD	N	0	N	ED	DA	
₹	ĨŢ.⊏		H		В	PFN	EВ	G	N	S	TB	BL	

DIAGNOSTIC FOR 23 ARPT AVG SAMBDERD 1987 MAXGW ATA 6-BUG CURFEW BD 1 3 1 17276.00 0.00 15200.0 79.5 3.0 10.0 0.8 67.3 67.3

2 -3 3 90.00 2500.0 102.2 0.0 0.0 0.8 103.0 103.0 1168.20

3 4 1 17276.00 0.00 15200.0 78.2 3.0 10.0 11.6 76.9 103.0

1168.20 90.00 2500.0 86.5 0.0 0.0 11.6 98.2 104.3 4 -4 3

5 20 1 17276.00 0.00 12600.0 77.3 3.0 10.0 15.9 80.1 104.3

6 -20 3 1124.87 90.00 2100.0 84.4 0.0 0.0 15.9 100.3 105.7

7 15 1 17276.00 0.00 15200.0 80.7 3.0 10.0 10.1 77.8 105.7

8 -15 3 1168.20 90.00 2600.0 93.5 0.0 0.0 10.1 103.6 107.8

2 1 17276.00 0.00 35300.0 76.2 3.0 10.0 25.9 89.1 107.9

10 -2 3 1211.49 90.00 8400.0 87.2 0.0 0.0 25.9 [113.1] 114.3 DC/O

6 1 17276.00 0.00 12200.0 75.4 3.0 10.0 21.1 83.5 114.3 11

1211.49 90.00 2800.0 86.0 0.0 0.0 21.1 107.1 115.0

1 1 17276.00 0.00 3355.0 73.8 3.0 10.0 21.6 82.4 115.0 13

951.26 90.00 1657.7 91.3 0.0 0.0 21.6 112.9 117.1 B747 14 -1 2

(a) Page 1.

Figure A-36. - 23-Airport, curfew JT3D, 1987 - standard takeoff, two-segment approach, SAM JT3D, SAM JT8D.

15 8 1 17276.00 0.00 12300.0 82.5 3.0 10.0 24.1 93.6 117.1

16 -8 3 1211.49 90.00 1800.0 84.3 0.0 0.0 24.1 108.3 117.7

17 18 1 17276.00 0.00 43250.0 81.8 3.0 1 0.0 21.4 90.2 117.7

18 -18 3 1211.49 90.00 8400.0 85.4 0.0 0.0 21.4 106.8 118.0

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DIAGNOSTIC FOR 23 ARPT AVG SAMBDEBD 1987 MAXGW ATA 6-306 CURFFW 311

3 5 3309.08 90.00 12600.0 97.9 0.0 0.0 0.8 98.7 98.7 2 -3 1 63275.00 0.00 5100.0 39.2 3.0 15.0 0.8 22.0 98.7 3509.08 90.00 12600.0 91.9 0.0 0.0 11.6 103.5 104.7 1 63275.00 0.00 5100.0 36.1 3.0 15.0 11.6 29.8 104.7 90.00 10300.0 81.6 0.0 0.0 15.9 97.5 105.5 5 20 6799.50 6 -20 1 65495.00 J.00 3660.0 32.9 3.0 15.0 15.9 30.8 105.5 3309.08 90.00 12600.0 93.8 0.0 0.0 10.1 103.9 107.6 8 -15 1 63275.00 0.00 5208.0 50.9 3.0 15.0 10.1 43.0 107.8 90.00 25800.0 85.7 0.0 0.0 25.9 111.0 113.1 DC/O 3118.71 10 -2 1 63745.00 0.00 12100.0 34.8 5.0 15.0 25.4 42.7 115.1

(b) Page 2.

Figure A-36.- Continued.



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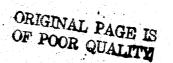
11	6	6	5032.29	90.00 10600.0 84.3 0.0 0.0 21.1 105.4 113.0	· · · · -
12	-6	1	64325.00	0.00 5411.0 45.4 3.0 15.0 21.1 48.5 113.8	• • • •
13	. 1	4	3171.65	90.00 2800.0 88.4 0.0 0.0 21.6 110.0 115.3	en e
14	, - 1	1	62445.00	0.00 2281.0 39.3 3.0 15.0 21.6 42.9 115.3	· · · · · · · · · · · · · · · · · · ·
15	8	6	5327.20	50.00 10230.0 90.3 0.0 0.0 24.1 114.4 117.9	B727.5AM
16	- 8	1	64445.00	0.00 4330.0 40.3 3.0 15.0 24.1 46.4 117.9	TAPAN TOTAL TRANSPORT
17	18	6	5199.05	90.00 31600.0 81.5 0.0 0.0 21.4 102.9 118.0	
18	-18	1	63745.00	0.00 12100.0 33.0 3.0 15.0 21.4 36.4 118.0	

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(c) Page 3.
Figure A-36.- Concluded.

(a) Page 1.

Figure A-37. - 23-Airport, curfew JT3D, 1987 - standard takeoff, two-segment approach, SAM JT3D, RFN JT8D.



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1	3	5	3075.72	90.00	12600.0	98.8 0.0	, 0,• 0	0.8	99.0	44•0	
2	-3	1	47727.00	0.00	5100.0	44.4 3.0	15.0	0. 8	27.2	99.6	
3	4	5	3075.74	90.00	12600.0	92.5 0.0	0.0	11.6	104.2	105.5	• •
4	-4	1	47727.00	_0.00	5100.0	40.9 3.0	15.0	11.6	34.6	100.5	
5	19	ģ	6580•66	<u>90.</u> 00	11000.0	70.8 0.0	0.0	15.9	86.7	105.5	
6	-19	1	49947.00	0.00	3660.0	30.0 3.0	15.0	15.9	27.9	105.5	-
7	15	5	3075.72	9 <u>0.</u> 00	12600.0	94.5 0.0	0.0	10.1	104.6	lyc.l	
8	-15	1	47727.00	U.00	5208.0	54.4 3.0	15.0	10.1	46.6	108.1	

(b) Page 2.

Figure A-37. - Continued.

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90.00 27400.0 88.7 0.0 0.0 25.9 114.7 115.5 DC/O

10 -2 1 48157.00 0.00 12100.0 39.1 3.0 15.0 25.9 47.0 115.5

11 12 5 6221.58 90.00 11300.0 74.7 0.0 0.0 21.1 35.3 115.0

12 -12 1 48777.00 0.00 5370.0 44.8 3.0 15.0 21.1 47.9 115.6

13 1 4 3000.70 90.00 2800.0 89.0 0.0 0.0 21.6 110.0 110.0 B747

14 -1 1 46857.00 0.00 2281.0 44.0 3.0 15.0 21.6 47.6 115.6

15 10 5 4997.31 90.00 11200.0 85.6 0.0 0.0 24.1 109.7 117.5

16 -10 1 48857.00 0.00 4330.0 57.0 3.0 15.0 24.1 63.1 117.5

17 18 5 4164.10 90.00 33600.0 86.1 0.0 0.0 21.4 107.6 118.0
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(c) Page 3.
Figure A-37.- Concluded.

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			DIAGNOSTIC	FOR 23	AIRPORT	AVG	1987	BASE	MAXG	FAR	3DEG	CURFEW 3D
			Harlandari Harlandari									
1	1	1	43390.00	0.00	3355.0	57.3	3.0	10.0	21.6	65.9	65.9	
•			2217 04		2205 0	07 (,		100 1		0510
2	-1	3	2317.96	90.00	2305.0	87.6	0.0	0.0	21.6	109.1	109.1	6147
-			43390.00	0.00	14500.0			10 0				
2	٠ >		43390.00	0.00	14,500,0	02.U	3.0	10.0	12.0	61.0	109.1	
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	- 3	2	2317.96	00.00	E100 0	~~~				100.0	1100	
- 4	- 3	2	2517.90	90.00	2100-0	90.8	0.0	0.0	12.0	T08*8	112.0	
5	·		43390.00	0.00	12200 0	/ 6 2		10 0	22 5		110 0	
2		•	45590.00	0. 00	12290.0	07.5	3.0	10.0	43.5	19.8	112.0	
6	_7	٠,	2317.96	90 00	4320 0	90 1	^ ^		23 5	112 6	1	2707
	•		2311.50	30.00	4330.0	20.01	0.0	0.0	23.3	113.0	1112.9	DILI
7	17	i	43390.00	0.00	12460 0	62 4	3 0	10 0	15 0	45 3	115 0	
•		-	432.30.00	0.00	1240000	02.	3.0	10.0	13.3	09.3	11302	
, A	7	. ,	2317.96	90 00	3660 0	84 4	0 0	0.0	15 0	100 3	114 0	
۷.	-,	-	2511070	70.00	3000.0	0747	0.0	0.0	1747	100.2	110.0	
q	14	1	43390.00	0.00	15200-0	64.6	3.0	10.0	10.1	61 7	116 0	
	: **	-	43370.00	4.00	10200.0	07.0	2.00	10.0	10.1	0.101	110.0	
10	4	. 7	2317.96	90.00	5208.0	97.5	0.0	0 0	10.1	107 6	116 6	
, ,			2317.90	70.00	220040	7100	. U . U	0.0	10.1	101.0	110.0	
11	. 2	1	43390.00	0.00	35300.0	65.9	3 0	10 0	25 0	7.9.7	114 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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			and the state of									10 mm
12	-2	2	2317.96	90-00	12100.0	83_0	0-0	0-0	25.9	108.0	117.2	
	-	-		2000				J	2203	# 0.0 P		
13	11	1	43390.00	0-00	12200.0	68.6	3-0	10-0	21-1	76-7	117.3	میبند شده ده د
				3,30			2.0	-0.0			- 4 1 0 3	
					<u> </u>							
14	-11	2	2517.96	90.00	5411.0	87-4	0-0	0-0	.21.1	108-5	117.8	
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Figure A-38. - 23-Airport, curfew JT3D, 1987 - cutback takeoff, standard approach.

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-	- 		г	DIAGNES	T I C	FOR 23	AIRPORT	AVG	1987	BASE	MAXGW	FAR	3DFG	CURFEW 30	
	•	1	5	37 ?9	97	90.00	2800.0	86.2	0.0	0.0	21.6	107.8	107.8	*	
	Z.	-1	1	.755+7	.00	C. 00	2281.0	36.2	3.0	15.0	21.6	39.8	107.8		
	2		5	3337	• 52	90.00	12080.0	97.9	0.0	0.0	12.0	109.9	112.0	B707	
	4	-3	1	76377	.00	0.00	5100.0	35.7	3.0	15.0	12.0	29.7	112.0		
	5	7	5	<u> 41</u> 74	. 6ú	90.00	8060.0	90.4	0.0	0.0	23.5	113.9	1116.1	B727	
	ć	7	1,	77547	00	0.00	4330.0	37.8	3.0	15.0	23.5	43.4	116.1		•
	7	1.7	5	6792	•39	90.00	8330.0	78.5	0.0	0.0	15.9	94.4	110.1		
	ŗ	7	1	79547	.00	0.00	3660•0	28.7	3.0	15.0	15.9	26.5	116.1		

(b) Page 2.

Figure A-38. - Continued.

9	14	4	3317.95	90.00 115	30.0	99.5	0.0	0.0	10.1	109.6	117.0	an de manuel, pie pare
10	-14	1	76377.00	0.00 52	08.0	8.3	3.0	15.0	10.1	0.4	117.0	
11	. 2	5	3761.03	90.00 258	00.0	83.5	0.0	0.0	25.9	109.4	117.7	
12	-2	1	76847.00	0.00 121	00.0	32.0	3.0	15.0	25.9	39.9	117.7	der v der service
Ιŝ	3, 3,	5	7605.51	90.00 96	00.0	79.4	0.0	0.0	21.1	100.5	117.8	
14	-11	· 1	77427.00	0.00 54	11.0	32.1	3.0	15.0	21.1	35.2	117.8	
15	18	6	6288.56	90.00 316	00.0	79.3	0.0	0.0	21.4	100.7	117.8	
16	-13	1,	76847.00	0.00 121	00.0	30.2	3.0	15.0	21.4	33.6	117.8	. At 10010000000
1.7	8	5	4174.66	90.00 80	60.0	88.6	0.0	0.0	14.9	103.5	118.0	• · · · · · · · · · · · · · · · · · · ·
18	-8	1	77547.00	0.00 43	30.0	37.4	3.0	15.0	14.9	34.3	118.0	. میشود

(c) Page 3. Figure A-38. - Concluded.

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TR	TE	MT	H	. B	PFN	EB	G	N	S	TB	BL	
		C	TAGNOSTIC	FOR 23	AIRPORT	AVG	BASE	1987	MAXGW	FAR	6-3DEG	CURFEW 3D
· : 1	7	1	22916.00	0.00	12290.0	78.8	3 3.0	10.0	23.5	89.3	89.3	
2	-7	3	1801.03	90.00	1800.0	91.3	0.0	0.0	23.5	114.8	7114.8	B727
		·	er en er							ng saka pegilipas dap	****	سيناونه ينشع
3	17	1	22916.00	0.00	12460.0	72.2	3.0	10.0	15.9	75.1	114.8	
4	-1.7	3	1616.42	90.00	2100.0	86.5	0.0	0.0	15.9	102.3	115.1	
5	2	1	22516.00	0.00	35300.0	73.0	3.0	10.0	25.9	85.9	115.1	of the total and
6	- 2	3	1801.03	90.00	8490.0	82.1	0.0	0.0	25.9	108.0	115.8	
							r					
7	11	1	22916.00	0.00	12200.0	76.2	3.0	10.0	21.1	84.3	115.8	The second secon
8	1	3	1801.03	90.00	2800.0	85.6	0.0	0.0	21.1	106.7	116.3	
9	8	1	22916.00	0.00	12290.0	78.2	3.0	10.0	14.9	80.1	116.3	A Pangi sajang Pri
iΩ	-8	3	1801.03	90.00	1800.0	80.5	0.0	0.0	14.9	95.5	116.4	
		•										
11	18	-1	22916.00	0.00	43250.0	79.0	3.0	10.0	21.4	87.4	116.4	
12	-18	3	1801.03	90.00	8400.0	80.3	0.0	0.0	21.4	101.7	116.5	• • • • • • • • • • • • • • • • • • • •
					· • • · · · · · · · · · · · · · · · · ·		-				1	
13	1	1	22916.00	0.00	3355.0	68.7	3.0	10.0	21	77.3	116.5	
		•	_				. ·					andria de la California. De la California de la Ca
14	-1	3	1489.04	90.00	1615.0	86.0	0.0	0.0	21.6	107.5	117.0	

Figure A-39. - 23-Airport, curfew JT3D, 1987 - cutbæck takeoff, two-segment approach.

15	14	1	22916.00	0.00	15200.0	74.8	3.0	10.0	10.1	71.9	117.0	
).6	-14	3	1708.76	90.00	2600.0	95.8	0.0	0.0	10.1	105.9	117.4	
17	., . 3	1	22916.00	0.00	14500.0	73.1	3.0	10.0	12.0	72.1	117.4	•••
iß	- 3	3	1708.76	90.00	2500.0	97.5	0.0	0.0	12.0	109.5	118.0	B707

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	Α Ι		े स्थाप प्रमुख्य क्षित्र क्ष्मी प्राप्त करणा	-	and the second seco	erioria (Austriania), contra e verta	- H	E N	E R		s U	
LU		XG IM			er e e e e e e e e e e e e e e e e e e	E BP	L D	A T	T I	E	ET PO	-
GB HE TR		UN MT	Н	В	PFN	SD EB	N G	0 N	N S	. NN ED TB	DA BL	Commission Commission
			DIAGNOSTIC F	NR 23	AIRPORT	AVG	BASE	1987	MAXG	FAR	6-3DEG	CURFEW 3D
1	7	5	4172.09	90.00	8060.0	90.4	0.0	0.0	23.5	113.9	113.9	B727
2	- 7	ī	77490.00	0.00	4330.0	37.9	3.0	15.0	23,5	43.4	113.9	
3	17	5	6788.18	90.00	8330.0	78.5	0.0	0.0	15.9	94.4	114.0	
4	-17	1	78540.00	0.00	3660.0	28.7	3.0	15.0	15.9	26.5	114.0	
5	2	5	3758.23	90.00	25800.0	83.5	0.0	0.0	25.9	109.4	115.3	
6	-2	1	76790.00	0.00	12100.0	32.0	3.0	15.0	25.9	39.9	115.3	
7	11	5	7600.34	90.00	9600.0	75.4	0.0	0.0	21.1	100.5	115.4	a of Designation and the sales of the
8	-11	1	77370.00	0.00	5411.0	32.1	3.0	15.0	21.1	35.3	115.4	

(b) Page 2. Figure A-39.- Continued.

9	8	5	4172.09	90.00	8060.0	88.6	0.0	0.0	14.9	103.6	115.7	
10	- 8_	1.	77490.00	0.00	4330.0	37.4	3.0	15.0	14.9	34.3	115.7	
11	18	6	628 3 . E2	90.00	31600.0	79.3	0.0	0.0	21.4	100.7	115.8	
12	-18	1	76790.00	0.00	12100.0	30.2	3.0	15.0	21.4	33.6	115.8	NATE OF THE PERSONS
13	1	5	3726.71	90.00	2800.0	86.2	0.0	0.0	21.6	107.8	116.5	
14	-1	1	75490.00	0.00	2281.0	36.2	3.0	15.0	21.6	39.8	116.5	nga tao - ity marana di ni dana - i i i i i i i i i i i i i i i i i i
15	14	4	3315.66	90.00	11530.0	99.5	0 • C	0.0	10.1	109.6	117.3	
16	-14	ī	76320.00	0.00	5208.0	8.3	3.0	15.0	10.1	0.4	117.3	
17	3	5	3335.24	90.00	12080.0	97.9	0.0	0.0	12.0	109.9	118.0	B707
18	-3	1	76320.00	0.00	5100.0	35.7	3.0	15.0	12.0	29.7	118.0	

(c) Page 3.
Figure A-39.- Concluded.

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HF	FP							SD	- N	0	N	ED	DA	
TR	TE	MI	г н			B	PFN	€B	G	N	S	TB	BL	
			DIAGNO	STIC	FOR	23	AIRPORT	AVG	1987	SAM3D	MAXG	FAR	6-3DFG	CURFEW 3D
1	7		2171	2.00		0.00	12290.0	79.6	3.0	10.0	23.5	90.1	90.1	· tre · vincentalistical / c · tre
											:		_ '*	
2	-7		167	5.19	90	0.00	1800.0	92.0	0.0	0.0	23.5	115.6	1115.6	B727
ذ	17		2171	2.00		0.00	12460.0	73.0	3.0	10.0	15.9	75.9	115.6	
						-				. -				
4	-17	- 3	151	1.49	90	0.00	2100.0	87.3	0.0	0.0	15.9	103.2	115.8	er en
							35300.0	72.		100		0, 5	1150	
. ?		•	21.71	4 90		1-00	32300.0	13.0	3.0	10.0	42.9	86.3	112.8	
6	-2		3 167	5.18	90	0.00	8400.0	83.0	0.0	0.0	25.9	108.9	116.6	DCIO
7	. 11		2171	2 - 00		0.00	12200.0	76.8	3 3 - 0	10.0	21.1	84.9	116.6	
•					-	•				-				
		••	, },	- 10			2800.0				21.3			· · · ·
В	-11	-	3 157	5.18	.90	יטט •נו	2800.0	86.2	0.0	0,0	21.1	107.6	11/-1	
		ومرشد												de nome
9	8		2171	2.00	. (0.00	12290.0	79.0	3.0	10.0	14.9	80.9	117.1	
10	-8		3 167	5.18	90	0.00	1800.0	81.2	0.0	0.0	14.9	96.2	117.2	
		Ъ .												
	10		1 2171	2 00			43250.0	70 5	: 3 0	10.0	71 A		117 0	
	10	•	21.11	2.00		1.00	43290.0	1905	3. 0	10.0	21.4	86.0	11 , , 2	
s				•		 -			<u> </u>			· · ·		
12	-18		3 167	5.18	90	0.00	8400.0	81.2	2 0.0	0.0	21.4	102.6	117.3	
					- delp -									
13	1		2171	2.00		J. 00	3355.0	69.	7 3.0	10.0	21.6	78.3	117.3	
14	- 1	-	137	3.64	90	0.00	1615.0	86.	0.0	0.0	21.6	108.4	117.9	
•		•		•						- F. (T.)				•

(a) Page 1.

Figure A-40. - 23-Airport, curfew JT3D, 1987 - cutback takeoff, two-segment approach, SAM JT3D.

15	15	1	21712.00	0.00 15200.0	77.0 3.0 10.0	10.1 74.1 117.9	· · · · · · · · · · · · · · · · · · ·
10	-15	3	1593.37	50.00 2600.0	90.0 0.0 0.0	10.1 100.1 117.9	
17	3	1	21712.00	0.00 14500.0	74.1 3.0 10.0	0.8 61.9 117.9	
18	-3	3	1593.37	90.00 2500.0	98.3 0.0 0.0	0.8 99.1 118.0	-
19	4	. 1	21712.00	0.00 14500.0	72.7 3.0 10.0	11.6 71.3 118.0	
20	-4	3	1593.37	90.00 2500.0	83.4 0.0 0.0	11.6 95.0 119.0	

ANA	LYS	IS f	OPSERVE	R AT (74941.	.00		0.00)			
							•	A T	უ P	- - .		
	Δ τ	MS			· 	. 	H	E	E		S	
FN		ΑĒ		· · · · · · · · ·	, —		- Ė	_u _	<u>A</u>		B. ET	_
LU	-	XG IM				BP	D	Ť	İ	F P	PO	
CB HE		ME				AN SD	N N	0	N	_NN_ ED	NT	
TR		MT	, .	В	PFN	EB	G	N -	S	TR	BL	
			DIAGNOSTIC	FOR 23	AIRPORT	AVG	1987	SAM3D	MAXG	FAR	6-3DEG	CURFEW 3D
1	7	5	3796.27	90.00	9060.0	91.4	0.0	0.0	23.5	114.9	114.9	8727
2	- 7	1	691+1.00	0.00	4330.0	39.7	3.0	15.0	23.5	45.3	114.9	=
3	17	5	6172.36	90.00	8330.0	75.8	0.0	0.0	15.9	95.7	114.9	
4	7	1	70191-00	0.00	3660.0	30.6	3.0	15.0	15.9	28.4	114.9	
5	ž	- 5	3348.93	90.00	25800.0	84.9	0.0	0.0	25.9	110.8	116.3	DC 10-
6	-2	1	68441.00	0.00	12100.0	33.7	3.0	15.0	25.9	41.6	116.3	

(b) Page 2. Figure A-40. - Continued.

7	11	5	6843.65	90.00	9600.0	80.8 0.0	0.0	21.1	101.9	116.5	
8	-11	ī	69021.00	0.00	5411.0	34.1 3.0	15.0	21.1	37.2	116.5	and being the
9	9	5	3796.27	90.00	8060.0	89.5 0.0	0.0	14.9	104.5	116.8	Apple of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control
10	– 8	1	69141.00	0.00	4330.0	39.2 3.0	15.0	14.9	36.1	116.8	a delagare
11	. 8	5 .	5589.55	90.00	31600.0	80.6 0.0	0.0	21.4	102.1	116.9	
12	-18	1	68441.00	0.00	12100.0	31.9 3.0	15.0	21.4	35.4	116.9	- Anderson and the speed and
13	1	5	3250.48	90.00	2800.0	87.7 0.0	0.0	21.6	109.2	117.6	er Seeks or Se
1.4	-1	ī	67141.00	C.00	2281.0	38.1 3.0	15.0	21.6	41.7	117.6	** ***********************************
15	15	4	2980.60	90.00	11530.0	92.4 0.0	0.0	10.1	102.5	117.7	
16	-15	1	67971.00	0.00	5208.0	50.0 3.0	15.0	10.1	42.1	117.7	
17	3	5	5001.63	90.00	12080.0	99.2 0.0	0.0	0.8	100.0	117.8	<u></u> <u></u>
18	-3	, 1	67971.00	0.00	5100.0	37.9 3.0	15.0	0.8	20.6	117.8	Cut managements
19	4	5	3001.63	90.00	12080.0	92.3 0.0	0.0	11.6	103.9	118.0	e since e e e e e e e e e e e e e e e e e e
20	-4	1	67971.00	0.00	5100.0	34.9 3.0	15.0	11.6	28.6	118.0	

(c) Page 3. Figure A-40. - Concluded.

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1	I	MS					1	N	R		U	
FN	R	AE					E	U	A		B	
LU	C	X.G.				E	L.	_A	_ I	E _	EI	
M	RT	IM				BP	D	Ţ	I	Р	PO	
3B	AY	ME				AN	I	I	0	NN	NT	
1E	FP	UN				SD	N.	O	N	ED	DA	
TR	TE	MT	H	В	PFN	EB	G	N	S	TB	BL	

DIAGNOSTIC FOR 23 AIRPORT AVG 1987 SAM 3DE8D MAXGW FAR 6-3DEG CURFEW 3D

									. : :			
. 1	20	1	17276.00	0.00	12460.0	77.0	3.0	10.0	15.9	79.8	79.8	
2	-20	3.	1124.87	90-00	2100.0	84.4	0.0	00	15.9	100.3	100.3	r salada en
3	2	1	17276.00	0.00	35300.0	76.2	3.0	10.0	25.9.	89.1	100.7	
4	-2	3.	1211.49	90.00	8400-0	87.2	0.0	0.0	25.9	113.1	113.4	DC/0
5	6	1	17276.00	0.00	12200.0	75.4	3.0	10.0	21.1	83.5	113.4	
6	-6	3	1211.49	90.00	2800.0	86-0	0.0	0.0	21.1	107.1	114.3	
7	8	1	17276.00	0.00	12290.0	82.5	3.0	10.0	24.1	9.3.6	114.3	
8	-8	3	1211.49	9.0.00	1800.0	84.3	0.0	0.0	24.1	108.3	115.3	
9	18	1	17276.00	0.00	43250.0	81.8	3.0	10.0	21.4	90-2	115.3	
10	-18	3	1211.49	90.00	8400.0	85.4	0.0	0.0	- 21.4	106.8	115.9	
11	1	1	17276.00	0.00	3355.0	73.8	3.0	10.0	21.6	82.4	115.9	
12	-1	2	951.26	90.00	1657.7	91.3	0.0	0.0	21.6	112.9	117.7	B747
13	15	1	17276.00	_ 0.00.	15200.0	80.7	3.0	10.0	10.1	7.7-8	117.7	
14	-15	3	1168.20	90.00	2600.0	93.5	0.0	0.0	10.1	103.6	117.8	

(a) Page 1.

Figure A-41. - 23-Airport, curfew JT3D, 1987 - cutback takeoff, two-segment approach, SAM JT3D, SAM JT8D.

ANA	LYS	IS F	OR OBSERVE	R AT (69249	.00,		0.00)			
FN LU IM GB	R C RT AY FP	MS AE XG IM ME UN				BP AN SD	I N	N U A T I	N	E P NN ED	PO NT DA	
TR	TE	MT	H	B	PFN	EB	G 	N 	S	TB	BL	DEG CUREEN 3D
			I AGNUS I IC.	FUK _23	AIREURI	A.V.L	1401	SAM 3	יי ממשחיי	AAGW :	FAK D-3	DEG CUREEN 3D
1	20	5	5752.52	90-00	8330.0	80.9	0.0	00	15.9	96.8	96.8	
2	-20	1	64499.00	0.00	3660.0	. 33.2	3.0	15.0	15.9	31.0	. 96-8	
3	2	4	3079.14	90.00	26362.5	86.4	0.0	0.0	25.9	112.3	112.4	DC10
4	-2	1	62749.00	0.00	12100.0	35.1	3.0	15.0	25.9	43.0	112.4	
5	6	5	6327.77	90.00	9600.0	8C.3	0.0	0.0	21.1	101.4	112.8	
6	-6	ı.	63329.00	0.00	5411.0	-45-6	3.0	15.0	21.1	48.7	112-8	1
7	8	5	3540.05	90.00	8060.C	90.1	0.0	0.0	24.1	114.2]116.5	13727 SAM
8	-8	1	63449.00	0.00	4330.0	40.6	3.0	15.0	24.1	46.6	116.5	

(b) Page 2. Figure A-41. - Continued.

9	18	6	5116.23	90-00	31600-0	81.6	0.0	0.0	21.4	103.1 116.7
10	-18	1	62749.00	0.00	12100.0	33.3	3.0	15-0	21.4	36.7 116.7
11	1	4	3160.70	90.00	2800.0	88.4	0.0	0.0	21.6	110.0 117.6
12	-1	1	61449.00	0.00	2281.0	39.6	3.0	15.0	21.6	43.2 117.6
13	15	. 4	2752.17	90.00	11530.0	93.2	0.0.	0.0	10.1	103.3_117.7
14	-15	1	62279.00	0.00	5208.0	51.1	3.0	15.0	10.1	43.2 117.7
15	3	5	2774.20	90.00	12080.0	100.2	0.0	0.0	D.8	101.0 117.8
16	-3	1	62279.00	0.00	5100.0	39.5	3.0	15.0	0.8	22.3 117.8
17	4	5	2774.20	90.00	12080.0	93.0	0.0	00	11.6	104.7 118.0
18	-4	1	62279.00	0.00	5100.0	36.4	3.0	15.0	11.6	30.1 118.0

(c) Page 3.
Figure A-41.- Concluded.

				** *** *** *** *** *** *** *** *** ***	-		A T	n				
	A	-	- 1			<u></u> Н	I E	<u>P</u> -		s	• • • •	
FN		MS AE		14	· · · · · · · · · · · · · · · · · · ·	E -	. <u>Т</u>			. U	·	
IW		XG IM			BP	ר D	A T	I	ę P	PO		
GB HE	FP	ME .			SD	I	0	N	ED	DA.	المنسسا ملك المراجعين الم	
TR	1 t.		H	B PFN	EB	G 		S PAD A	TB	RL 	DEG CURFEW 3D	
		•,	TAGNOSTIC	THE 25 ATREO	~	2701	3AH30	KOD .	TANON	, pr 0-3	DEG CORPEN SO	
ı	2	1	17629.00	0.00 35300	.0 76.0	3.0	10.0	25.9	88.9	98.9		
ż	-2	3	1248.39	90.00 8400	.0 86.8	0.0	0.0	25.9	112.7	112.8	DC/D	
3	1 3	1	17629.00	0.00 43250	.0 81.6	3.0	10.0	21.4	90.0	112.8		
4	-18	3	1248.39	9C.00 8400	.0 85.0	0.0	0.0	21.4	106.5	113.7		
5	1	1	17629.00	0.00 3355	.0 73.4	3.0	10.0	21.6	82.0	113.7		
6	-1	3	992.30	90-00 1615	0 90.6	0.0	0.0	21.6	112.1	116.0	B747	
7	1.5	1	17629.00	0.00 15200	0 80.4	3.0	10.0	10.1	77.5	116.0		
**	- <u>,</u>	. a	1202.03	90.00 2600	0 93.2	0.0	0.0	10-1	103.3	116.2		
9	.*		17629.00	0.00 14500	.0 77.7	3.0	10.0	0.8	65.5	116.2		
10	- 3	3	1202.03	90.00 2500	.0 101.9	0.0	0.0	0.8	102.7	116.4		
1	•	1	17629.00	0.00 14500	.0 75.9	3.0	10.0	11.6	74.6	116.4		
12	-4	3	1202.03	90.00 2500	.0 86.3	0.0	0.0	11.6	97.9	116.5		
1.3	. .0	1	17629.00	0.00 12900	.0 73.6	3.0	10.0	24.1	4.6	116.5		
				90.00 1800								
ż		1	17629.00	0.00 12750	.0 69.8	3.0	10.0	21.1	77.9	117.8		

Figure A-42. - 23-Airport, curfew JT3D, 1987 - cutback takeoff, two-segment approach, SAM JT3D, RFN JT8D.

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16 -12 3 1248.39 9C.00 2800.0 82.7 0.0 0.0 21.1 103.8 117.9

17 19 1 17629.00 0.00 13160.0 58.1 3.0 10.0 15.9 61.0 117.9

18 -19 3 1155.63 9C.00 2100.0 84.C 0.0 0.0 15.9 99.8 118.0
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FN	-	MS AE					H I E	E N U	E R		S U B			
LU [M GB	AY	T 'A ME		No. No. No. of Concession		E BP AN	L D 	A T 	T I <u>O</u> .	E P NN	PO NT			
HE. TR		MT	Н	8	PFN	SD EB	N G	0	N	ED TB	DA BL			
		D	IAGNOSTIC	FOR 23	AIRPORT	AVG	1987	SAM3D	F.,)	MAXGW	FAR 6-3	DEG	CURFEW	3D
1	2	4	2902.63	90.00	27400.0	88.1	0.0	0.0	25.9	114.0	114.0	DC/	5	
5	-2	1	54969.00	0.00	12100.0	37.1	3.0	15.0	25.9	45.0	114.0			-
3.	13	5	4491.37	90.00	32870.4	84.5	0.0	0.0	21.4	105.9	114.7			
4	8	1	54969.00	0.00	12100.0	35.3	3.0	15.0	21.4	38.7	114.7	•		· · · -
5	1	4	3075.16	90.00	2800.0	88.7	0.0	0.0	21.6	110.3	116.0			- 1
6	-1	1	53669.00	0.00	2281.0	41.8	3.0	15.0	21.6	45.4	116.0			
7	15	4	2439.94	90.00	11530.0	94.5	0.0	0.0	10.1	104.6	116.3		•	
8	-15	j	54499.00	0.00	5208.0	52.8	3.0	15.0	10.1	44.9	116.3			1
9	3	5	2463.33	90.00	12080.0	101.7	0.0	0.0	0.8	102.5	116.5		•	
J Ù	-3	1	54459.00	0.00	5100.0	42.0	3.0	15.0	0.8	24.7	116.5			

(b) Page 2. Figure A-42. - Continued.

1.	4	5	2463.33	90.00	12080.0	94.1 0.	0.0.0	11.6	105.8 116.8		
12	-4	. 1	54499.00	0.00	5100.0	38.7 3.	0 15.0	11.6	32.3 116.8		
13	10	5	3430.84	9C.00	6230.0	87.2 0.	0.0	24.1	<u>111.3</u> 117.9	B727	RFN
14	-10	1	55669.00	0.00	4330.0	55.6 3.	0 15.0	24.1	61.7 117.9		- -)
. 5	12	5	5530.64	90.00	9600.0	74.3 0.	0 0.0	21.1	95.4 117.9		
16	-12	1	55549.00	0.00	5370.0	43.3 3.	0 15.0	21.1	46.4 117.9		
17	<u>.</u> .c	5	5398.16	90.00	8390.0	73.4 0.	0.0	15.9	89.3 118.0	<u>-</u>	
18	-10	1	56719.00	0.00	3660.0	27.9 3.	0 15.0	15.9	25.8 118.0		- 1

(c) Page 3.
Figure A-42.- Concluded.

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	4113						S	T	ρ			
	A.						Н	Ε	E		S	
		MS					1	, N	R		U	
FN		ΑE				_	Ε	U	Δ .		В	
LU	C	XG				E	ŗ	A	T	E	ET	
IM	RT	IM				BP	D I	T I	Ī	P	PO	
GB		UN				AN SD	N	Ö	N	NN ED	DA	
TR		MT	н	В	PFN	EB	G	N.	Š	TB	BL	
			LACNOCTIC		ADDT AVC	051/1						300
		U	IAGNOSTIC	FUK 23	AKPI AVG	KEWAN	HEW C	פאס שפ	E 1301	L MAX	GW AIF	טטכ
1	3	1.	501CC.00	0.00	15200.0	61.3	3.0	10.0	18.0	66.3	66.3	
	3											
	_ 2		2669.13	00 00	5100 O	04.6	0 0	0.0	וֹם מוֹ	112 6	1112-6	D. COC
2	-3		2009.13	90.00	3100.0	94.0	0.0	0.0	10.0	112.6	112.0	6707
			All Sales Con-									
3	7	1	50100.00	0.00	12300.0	67.2	3.0	10.0	23.4	77.7	112.6	
4	-7	. 2	2669.13	90.00	4330.0	88.5	0.C	0.0	23.4	111.9	115.3	8727
5	17		501CC.CC	0.00	12600.0	60.6	3 0	10.0	15.6	63.2	115.3	
		-	3510000	0.00	1200010	00.0	J	10.0	15.0	0507	11755	
6	-17	2	2669.13	90-00	3660.0	82.4	0.0	0.0	15.6	98.0	115.3	
1												
- 1	14	1	501CC.CC	0.00	15200.0	62.3	3.0	10.0	16.9	66 • 2	115.3	
ρ	-14	2	2669.13	90-00	5208-0	95.0	0.0	0.0	16.9	111.5	117.0	DCS
			2007013	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	21.6000	,,,,,		•	,			700
9	2	1	501CC.00	0.00	35300.0	64.2	3.0	10.0	24.7	75.9	117.0	
			0440 10	00.00	10100 0				A/ 7	105 /		
10	-2	2	2669.13	90.00	12100.0	81.0	0.0	0.0	24.1	105.6	11/-3	
			na marana ar		i Palaga sa	1 1 1						
11	11	1	501CC-00	0.00	12200-0	66-9	3.0	10-0	21-0	74.8	117-3	
	* *											
						4						
12	-11	2	2669.13	90.00	5411.0	85.5	0 - C	0.0	21.0	106.5	117.6	
		- :				_	-					
					(a)	Page	1.					

Figure A-43. - 23-Airport, refan new JT8D's, 1981 - standard takeoff, standard approach.

13	1	1	50100.00	0.00	3355.0	54.7	3.0	10.0	20.2	61.9	117.6
14	-1	3	2669.13	90.00	2305.0	85.9	C.O	0.0	20.2	106.1	117.9
15	18	1	501CC.0C	0.00	43250.0	71.3	3.0	10.0	19.2	77.5	117.9
16	-18	2	2669.13	90.00	12100.0	79.2	c.0	0.0	19.2	98.4	118.0
17	10	1	50100.00	0.00	12900.0	57.7	3.0	10.0	17.1	61.8	118.0
18	-10	2	2669.13	90.00	4330.0	83.9	0.0	0.0	17.1	100.9	118.0
19	19	1	50100.00	0.00	13160.0	37.5	3.0	10.0	5.9	30.5	118.0
20	-19	2	2669.13	90.00	3660.0	75.3	0.0	0.0	5.9	81.2	118.0
21	12	1	50100.00	0.00	12750.0	57.6	3.0	10.0	8.9	53.5	118.0
22	-12	2	2669.13	90.00	5370.0	77.7	0.0	0.0	8.9	86.5	118.1

ANA	LYS.	15 r	UK	OR2FK/	IEK A	1 4	002	11.00	U •		0.0	101		
											A	- 2 th		
•											T	() (a		
	Α									H	E	F		S
	I	MS								I	N.	R		U
FN	R	AE								Ë	U	A		В
LU.	C	ΧG							E	L	A	·	F	ET
IM	RT	IM							BP	Ð	T	I	P	PO .
GB	AY	ME							AN	I	1	. 0	NN	NT
HE	FP	UN							SD	N	. 0	· N	ED	DA
TR	TE	MT		H		В	PFN		EB	G	N	S	TB	BL

DIAGNOSTIC FOR 23 ARPT AVG REN/NEW 8D BASE 1981 MAXGW ATA 3DG

1 3 6 4026.10 90.00 12300.0 94.4 0.0 0.0 18.0 112.4 112.4 B707
2 -3 1 79307.00 0.00 5100.0 35.0 3.0 15.0 18.0 35.0 112.4
(b) Page 2.

Figure A-43.- Continued.

```
90.00 10230.0 87.4 0.0 0.0 23.4 110.8 114.7
        7328.21
                  0.00 4330.0 37.2 3.0 15.0 23.4 42.7 114.7
 4 -7 1 80477.00
                  90.00 10300.0 78.6 0.0 0.0 15.6 94.1 114.7
          8363.95
5 17 6
6 -17 1 81527.00 0.00 3660.0 28.0 3.0 15.0 15.6 25.6 114.7
         4026.1C 90.00 12300.0 96.2 0.0 0.0 16.9 113.1 117.0 DCR
 8 -14 .1 75307.00 0.00 5208.0 7.2 3.0 15.0 16.9 6.1 117.0
    2 5
          3904.67
                   90.00 25800.0 83.0 0.0 0.0 24.7 107.7 117.5
10 -2 1 79777.00 0.00 12100.0 31.4 3.0 15.0 24.7 38.1 117.5
11 11 6 6755.39
                  90.00 10600.0 82.2 0.0 0.0 21.0 103.2 117.6
12 -11 1 80357.00
                   0.00 5411.0 31.5 3.6 15.0 21.0 34.5 117.6
13 1 5 3897.10
                   90.00 2800.0 85.7 0.0 0.0 20.2 105.9 117.9
14 -1 1 78477.CG
                 0.00 2281.0 35.6 3.0 15.0 20.2 37.8 117.9
         6532.21
                  90.00 31600.0 78.8 0.0 0.0 19.2 98.1 118.0
15 18
16 -18 1 79777.00 0.00 12100.0 29.6 3.0 15.0 19.2 30.8 118.0
17 10 6
          8497.17
                  90.00 11200.0 78.6 0.0 0.0 17.1 95.7 118.0
18 -10 1 80477.0C 0.00 4330.0 51.6 3.0 15.0 17.1 50.7 118.0
19 19 6 10702.68
                   90.00 11000.0 62.8 0.0 0.0 5.9 68.7 118.0
20 -19 1 81527.00 0.00 3660.0 21.9 3.0 15.0 5.9
21 12 5 10398.23
                   90.00 11300.0 68.7 0.0 0.0 8.9 77.5 118.0
22 -12 1 80357.00
                  0.00 5370.0 39.0 3.0 15.0 8.9 29.8 118.0
```

(c) Page 3.

Figure A-43. - Concluded.

								A	_		
							S	Ţ	p		•
	I	MS					I	N	R		U
FN LU	R C	A E	ij aali S			E	E	IJ A	A T	E	ET
IM GB	RT AY	IM ME				BP AN	D	T	I	N P	PO NT
HE	FP	UN		_		SD	Ň	Ô	Ŋ	D	DA
TR	TE	MT	Н	 8	PFN	EB	- G	 N	· S	 TB.	BL

DIAGNOSTIC FOR 23 APPT AVG REN/NEW 8D BASE 1981 MAXGW ATA 6-3DG

0.00 15200.0 72.6 3.0 10.0 18.0 77.5 77.5 25897.00 -3 90.00 2500.0 95.5 0.0 0.0 18.0 113.5 113.5 B707 1994.48 0.00 12300.0 77.0 3.0 10.0 23.4 87.4 113.5 7 25897.CC 1 90.00 1800.0 89.3 0.0 0.0 23.4 112.7 116.1 B727 -7 2112.63 3 25897.00 0.00 12600.0 70.7 3.0 10.0 15.6 73.3 116.1 17 1 2100.0 84.5 C.0 0.0 15.6 100.1 116.2 6 -17 1876.24 90.00 0.00 15200.0 72.8 3.0 10.0 25897.00 16.9 76.8 116.2 14 1994.48 90.00 2600.0 93.7 0.0 0.0 16.9 110.6 117.3 8 -14 3 0.00 35300.0 2 25897.CO 71.6 3.0 10.0 24.7 83.3 117.3 90.00 8400.0 24.7 104.6 117.5 -2 2112.63 80.0 0.0 0.0 3 0.00 12200.0 74.7 3.0 10.0 21.0 82.7 117.5 11 11 25897.00 83.5 0.0 0.0 21.0 104.4 117.7 90.00 2800.0 12 -11 2112.63

Figure A-44. - 23-Airport, refan new JT8D's, 1981 - standard takeoff, two-segment approach.

13	1	1	25897.00	0.00	3355.0	66.5	3.0	10.0	20.2	73.7	117.7
14	-1	3	1774.76	90.00	1615.0	84.0	0.0	0.0	20.2	104.2	117.9
15	18	1 -	25897.00	0.00	43250.0	77.8	3.0	10.0	19.2	84-0	117.9
16	-18	3	2112.63	90.00	8400.0	78.2	0.0	0.0	19.2	97.4	118.0
17	10	ı,	25897.00	0.00	12900.0	67.7	3.0	10.0	17.1	71.8	118.0
18	-10	3	2112.63	90.00	180C.C	82.4	0.0	0.0	17.1	99.4	118.0
19	19	ı	25897.00	0.00	13160.0	50.5	3.0	10.0	5.9	43.5	118.0
:20	-19	3	1876.24	90.00	2100.0	77.6	0.0	0.0	5.9	83.5	118.0
21	12	1	25897.00	0.00	12750.0	65.3	3.0	10.0	8.9	61.2	118.0
22	-12	3	2112.63	90.00	2800.0	76.5	0.0	0.0	8.9	85.3	118.0

ANA	LYS	IS F	OR	OBS	ERVE	R AT	Γ.(.,	ε	650	0.00) •		0.0	001				
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	A											. S H	F		P		S	
4.1.	ì	MS										1	N	•	R		Ū	
FN	R	AE									F	E	U		A	F	B ET	
LU.	C RT	XG									ВР	Ď	T		İ	P	PO	١,
GB		ME									AN	I	I		0	NN	NT	
HE	. FP	MT		н			В	ŧ	FN		SD EB	N G	N		S	ED TB	DA BL	

DIAGNOSTIC FOR 23 ARPT AVG REN/NEW 8D BASE 1981 MAXGW ATA 6-3DG

1 3 6 4039.63 90.00 12300.0 94.4 0.0 0.0 18.0 112.3 112.3 B707 2 -3 1 79530.00 0.00 5100.0 34.9 3.0 15.0 18.0 34.9 112.3

(b) Page 2. Figure A-44. - Continued.

3	7	6	7356.05	90.00	10230.0	87.3	0.0	0.0	23.4	110.8	114.6	
4	-7	l	80700.00	0.00	4330.0	37.2	3.0	15.0	23.4	42.6	114.6	
5	17	6	8385.71	90.00	10300.0	78.5	0.0	0.0	15.6	94.1	114.7	
6	-17	1	81750.00	0.00	3660.0	28.0	3.0	15.0	15.6	25.6	114.7	
7	14	6	4039.63	90.00	12300.0	96.1	0.0	0.0	16.9	113.0	116.9	DC8
8	-14	1	79530.00	0.00	5208.0	7.1	3.0	15.0	16.9	6.0	116.9	
9	2	5	3915.60	90.00	25800.0	83.0	0.0	0.0	24.7	107.7	117.4	
10	-2	ı	80000.00	0.00	12100.0	31.4	3.0	15.0	24.7	38.0	117.4	
11	11	6	6779.36	90.00	10600.0	82.2	0.0	0.0	21.0	103.1	117.6	
12	-11	1	8C580.CO	0.00	5411.0	31.5	3.0	15.0	21.0	34.4	117.6	
13	1	5	3909.82	90.00	2800.0	85.7	0.0	0.0	20.2	105.9	117.9	
14	-1	1	78700.00	0.00	2281.0	35.5	3.0	15.0	20.2	37.7	117.9	
15	18	6	6550.75	90.00	31600.0	78.8	0.0	0.0	19.2	98.C	117.9	
16	-18	1	80000.00	0.00	12100.0	29.6	3.0	15.0	19.2	30.8	117.9	
17	10	6	8533.60	90.00	11200.0	78.6	0.0	0.0	17.1	95.6	117.9	
18	-10	1	8C7CC-00	0.00	4330-0	51.6	3.0	15.0	17.1	50.6	117.9	
19	19	6	10731.78	90.00	11000.0	62.7	0.0	0.0	5.9	68.6	117.9	
20	-19	1	81750.0C	0.00	3660.0	21.9	3.0	15.0	5.9	9.8	117.9	
21	12	5	10427.73	90.00	11300.0	68.6	0.0	0.0	8.9	77.5	117.9	
2?	-12	1	80580.00	0.00	5370.0	38.9	3.0	15.0	8.9	29.8	117.9	

(c) Page 3. Figure A-44.- Concluded.

ANA	LYS	IS F	OR CBSERVE	R AT (-21530	.00,		0.00)			
FN LU IM GB HE	R C RT	XG ·				E BP AN SD	S H I E L C I	A T T E N U A T I	U P E R A T I O N	E P NN ED	S U 3 ET PO NT DA	
TR	TE	MT	Н		PFN	EB		N	\$	ТВ	BL	
		D	IAGNESTIC	FCR 23	APT AVG	RFN/NI	EW 80	SAM3	D 1981	. MAXGW	ATA 6	-306
1	3	1	21630.00	c.00	15200.0	75.6	3.0	10.0	-2.2	60.4	60.4	
2	-3	3	1585.51	90.00	2500.0	98.4	0.0	0.0	-2.2	96.2	96.2	
3	4	1	21650.00	c. 00	15200.0	74.8	3.0	10.0	17.9	79.7	96.3	
4	-4	3	1585.51	90.00	2500.C	83.4	0.0	0.0	17.9	101.3	102.5	
5		1	21630.00	C. 00	12300.0	79.6	3.0	10.0	23.4	90.1	102.8	
6	-7	ڎ	1666.60	90.00	1800.0	92.1	0.0	0.0	23.4	115.5	115.8	B727
, 7	17	1	21630.00	C.00	12600.0	73.5	3.0	10.0	15.6	76.0	115.8	
8	-17	3	1504.34	90.00	2100.0	87.4	0.0	0.0	15.6	102.9	116.0	
9	15	1	21630.00	C. 00	15200.0	77.C	3.0	10.0	16.9	80.9	116.0	
10	-15	3	1585.51	90.00	2600.0	90.1	0.0	0.0	16.9	107.0	116.5	
11	2	1	21630.00	C. 00	35300.0	73.7	3.0	10.0	24.7	85.3	116.5	
12	-2	3	1666.60	90.00		83.1) Page		0.0	24.7	107.7	117.0	DCID
	Ŧ	'iau	re A-45	23-Airpo	ort. refa	an new	JT8D	's, 19	81 - st	andard	takeo	ff,

Figure A-45.- 23-Airport, refan new JT8D's, 1981 - standard takeoff, two-segment approach, SAM JT3D.

13	11	1	21630.00	C.00	12200.0	76.9	3.0	10.0	21.0	84.8	117.0
14	-11	3	1666.60	90.00	2800.0	86.5	0.C	0.0	21.0	107.5	117.5
15	1	¥	21630.00	C.00	3355.0	69.8	3.C	10.0	20.2	76.9	117.5
16	-1	3	1.365.78	9 C. 00	1615.0	86.9	0.0	0.0	20.2	107.1	117.9
17	18	1	21630.00	C. 00	43250.0	79.6	3.0	10.0	19.2	85.8	117.9
18	-18	3	1666.60	90.00	8400.0	81.3	0.0	0.0	19.2	100.5	118.0
19	10	1	21630.00	c. 00	12900.0	7C.5	3.C	10.0	17.1	74.5	118.0
20	-1 C	3	1666.60	9C.00	1800.0	84.8	0.0	0.0	17.1	101.9	118.1
21	19	1	21630.00	C.00	13160.0	54.1	3.0	10.0	5.9	47.0	118.1
22	-19	3	1504.34	sc.00	2100.0	80.5	0 • C	0.0	5.9	86.4	118.1
23	12	1	21630.00	C.00	12750.0	67.4	3.0	10.0	8.9	63.3	118.1
24	-15	3	1666.60	90.00	2800.0	79.3	0.0	0.0	8.9	88.1	118.1

(b) Page 2. Figure A-45. - Continued.

·	M Y51	S F	OR CBSERVE	R AT (74719.	.00•		0.00				
FN LU IM GB HE TK	A I R C RT AY FP	MS AE XG IM	H	B	PFN	•	S H I E L D I N G	A T T E N	P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
			DIAGNOSTIC	FOR 25	APT AVG	RFN/N	EW 80	SAM3	0 1981	MAXG	ATA 6	-3DG
1	3	5	3376.23	90.00	12600.0	57.7	0.0	0.0	-2.2	95.4	95.4	
2	-3	1	67749.00	C.00	5100.0	37.9	3.0	15.0	-2.2	17.7	95.4	
3	4	5	3376.23	90.00	12600.0	91.7	0.0	0.0	17.9	109.6	109.8	
4	-4	1	67749.00	c. 00	5100.0	35.C	3.0	15.0	17.9	34.9	109.8	
5	7	6	5885 • 62	90.00	10230.C	90.0	0.0	0.0	23.4	113.5	115.0	B727
E	-7	1	68919.00	0.00	4330.0	39.8	3.0	15.0	23.4	45.2	115.0	
7	17	ć	7236.08	90.00	10300.0	80.5	0 • C	0.0	15.6	96+1	115.1	
8	-17	1	69969.00	C.00	3660.0	30.6	3.0	15.0	15.6	28.2	115.1	
7	15	5	3376.23	90.00	12600.0	93.6	0.0	0.0	16.9	110-5	116.3	DC8 SAM
10	-15	1	67749.00	C.00	5208.0	50.C	3.0	15.0	16.9	49.0	116.3	
11	2	5	3338.05	96.00	25800.0	84.9	0.0	0.0	24.7	105.6	117.2	
1.2	-2	1	68219.00	C. 00	12100.0	33.8	3.0	15.0	24.7	4C.4	117.2	
15	11	6	5513.15	9C <u>.</u> 00	10600.0	84.9	0.C	0.0	21.0	105.8	117.5	
14	-11	1	68799.00	0.00	5411.0	34.1	3.0	15.0	21.0	37.1	117.5	

(c) Page 3. Figure A-45.- Continued.

15	1.	, 5	3237.81	9 C. 00	2800.0	87.7	C.C	0.0	20.2	107.9	117.9
16		1	66919.00	C.00	2281.0	38.2	3.0	15.0	20.2	40.4	117.9
17	18	£	5571.09	90.00	31600.C	EC.7	C.C	0.0	19.2	95.9	118.0
16	-18	. 1	68219.00	C. CO	12100.0	32.C	3.0	15.0	19.2	33.2	118.0
19	±0	£	7159.10	9 C. 00	11200.0	8C.7	C.C	0.0	17.1	97.8	118.0
2 C	- rc	1	68919.00	C. 00	4330.0	53.3	3.0	15.0	17.1	52.3	1.8.0
21	19	6	9194.05	50.00	11000.0	65.7	C.C	0.0	5.9	71.6	118.0
22	-19	1	69969.00	C. 00	3660.0	24.4	3.0	15.0	5.9	12.3	118.0
2 3	12	5	8869.62	\$C.00	11300.C	7C.5	c.c	0.0	8.9	79.4	118.0
24	-14	. · · · : 1 .	68799.00	c. 00	5570.0	40.8	3.0	15.0	8.9	31.0	118.0

(d) Page 4. Figure A-45. - Concluded.

ANA	LYS	IS (FOR CBSERVE	R AT (-17170.	00,		0.00) ₁				
FN LU IM GB HE TR	C RT AY FP	MS AE XG IM ME UN MT		8	PFN	E BP AN SD EB	S H I E L D I N	ATTENUATION	OPERATIONS	E P NN ED TB	S U B ET PU NT DA BL		
			DIAGNOSTIC	FOR 23	ARPT AVG	RFN/	NEW	BD SAM	3D&8D	1981	MAXGW	ATA	6-3DG
1	3	1	17270.00	C.00	15200.0	75.5	3.0	10.0	-2.2	64.2	64.2		
2	-3	ŝ	1167.62	9C.00	2500 • C	102-2	0.0	0.0	-2.2	100.0	100.0		
٠ خ	4	1	17270.00	c. uo	15200.0	78.2	3.0	10.0	17.9	83.1	100.1		
4	-4		1167.62	90.00	2500.C	86.6	0.0	0.0	17.9	104.5	105.8		
5	20	i	17270.00	0.00	12600.0	77.3	3.0	10.0	15.6	79.8	105.8		
ပ	-20	. 3	1124.34	90.00	2100.0	84.4	0.0	0.0	15.6	100.0	106.8		
7	15	1	17270.00	C.00	15200.0	8C.7	3.0	10.0	16.9	84.6	106.9		
8	-15	3	1167.62	9C.00	2600.0	93.5	0.0	0.0	16.5	110.4	112.0		
	2	1	17270.00	C.OC	35300.0	76.2	3.C	10.0	24.7	87.9	112.0		
10	- 2	.	1210.86	9 C. 00	8400.0	87.2	0.0	0.0	24.7	111.9	115.0	DC	.10
11	6	1	17270.00	c. 00	12200.0	75.4	3.0	10.0	21.0	83.4	115.0		
lz	-6	3	1210.86	sc.00	2800.0	86.0	0.0	0.0	21.0	107.0	115.6		
13	1	1	17270.00	C. 00	3355.0	73.8	3.0	10.0	20.2	81.0	115.6		
14	-1	2	\$50 . 94	90.00	1661.7	91.3	0.0	0.0	20.2	111.5	117.0	B7	47

Figure A-46.- 23-Airport, refan new JT8D's, 1981 - standard takeoff, two-segment approach, SAM JT3D, SAM JT8D.

15	8	1,	17270.0C	C.00	12300.0	82.5	3.C	10.0	23.4	93.0	117.1
16	-8	3	1210.66	90.00	1800.0	84.3	0.0	0.0	23.4	107.7	117.5
17	18	1.,	17270.00	C.00	43250.0	81.8	3.C	10.0	19.2	88.0	117.5
16	-18	3	1210.86	9C.00	8400.0	85.4	0.0	0.0	19.2	104.7	117.8
19	10	1	17270.00	C.00	12900.0	73.9	3.C	10.0	17.1	77.9	117.8
20	-10	3	1210.86	90. 00	1800.0	88.1	0.0	0.0	17.1	105.2	118.0
21	19	1	17270.00	C. 00	13160.0	58.5	3 . C	10.0	5.9	51.4	118.0
22	-19	3	1124.34	90.00	2100.0	84.3	0.0	0.0	5.9	90.2	118.0
د ع	12	1	17270.00	C.00	12750-0	70.C	3.0	10.0	8.9	65.9	118.0
24	-12	3	1210.86	90.00	∠800.0	83.0	0.0	0.0	8.9	91.9	118.0

ANA	LYS	S	FOR	CBSERVER	TA S	72793	.00.		0.00)		
									A	0		
	À							S	T E	P E		
FN	I R	MS AE						I	N U	R A		U B
LU	C RT	XG IM			10 - 120 - 1 10 - 1		BF	L C	A T	1	E P	ET PO
GB HE	AY	ME					AN SD	I	I	0 N	NN ED	NT DA
TP	TE	MT		Н	В	PFN	EB	43	Ŋ	S	TB	BL

DIAGNOSTIC FOR 23 ARPT AVG REN/NEW 8D SAMSDERD .981 MAXGW ATA 6-3DG

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1 3 5 3347.32 9C.00 12600.0 97.8 0.C 0.0 -2.2 95.6 95.6
2 -3 1 65823.00 C.00 5100.0 38.4 3.0 15.0 -2.2 18.2 95.6
3 4 5 3347.32 9C.00 12600.0 91.8 0.0 0.0 17.9 109.7 109.8
4 -4 1 65823.00 C.00 5100.0 35.5 3.C 15.0 17.9 35.4 109.8
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(b) Page 2. Figure A-46. - Continued.

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7048.14 50.00 10300.0 81.2 0.0 0.0 15.6 96.7 110.1
5 20 6
                  C.00 3660.0 32.3 3.0 15.0 15.6 29.9 110.1
      1 68043.00
                   90.00 12600.0 93.6 0.0 0.0 16.9 110.5 113.3 DC8 SAM
          3347.32
        65823.00 C.00 5208.0 50.4 3.0 15.0 16.9 49.3 113.3
          3243.63 90.00 25800.0 85.2 0.0 0.0 24.7 109.9 114.9
      1 66293.00
                  C.00 12100.0 34.2 3.0 15.0 24.7 40.9 114.9
          5306.14 90.00 10600.0 83.6 0.0 0.0 21.0 104.5 115.3
                  C.00 5411.0 44.9 3.0 15.0 21.0 47.8 115.3
   -6 1 66873.00
          3199.67 50.00 2800.0 88.3 0.0 0.0 20.2 108.5 116.1
      1 64993.00
                  C.00 2281.0 38.7 3.0 15.0 20.2 40.9 116.1
          5645.23 9C.CO 10230.0 85.6 0.0 0.0 23.4 113.0 117.9 B727 SAM
16 -8 1 66993.00
                  C.00 4330.0 39.7 3.0 15.0 23.4 45.1 117.9
         5410.93
                   90.00 31600.0 81.0 0.0 0.0 19.2 100.2 117.9
18 -18 1 66293.CC
                 C.00 12.00.0 32.4 3.0 15.0 19.2 33.7 117.9
          6934.39 90.00 11200.0 81.1 0.0 0.0 17.1 98.2 118.0
20 -10 1 66993.00
                  C.00 4330.0 53.6 3.0 15.0 17.1 52.6 118.0
          8942.66
                  90.00 11000.0 66.2 0.0 0.0
                                             5.9 72.1 118.0
   19
     1 68043.00
                  C.00 3660.0 24.9 3.0 15.0
                                             5.9 12.8 118.0
22 -17
                   90.00 11300.0 70.9 0.0 0.0 8.9 79.7 118.0
          E614.E9
                  C.00 5370.0 41.1 3.0 15.0 8.9 32.0 118.0
24 -14 1 66873.00
                              (c) Page 3.
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Figure A-46. - Concluded.



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	A	MS							H	E	E.		Ş
ĒΝ	P	AE						_	E	Ü	A		В
LU	C RT	XG IM		•				BP.	D	A T	I .	ن الله الله الله الله الله الله الله الل	ET. PU
GB	AY FP						. •	AN	I	I O	ů í	NN 50	NT
TR.	TE		ь		В	PFN		EB	G	14	s	TB	RF

DIAGNOSTIC FOR 23 AIRPORT AVG REFAN/NEW 8D 1981 BASE MAXGW FAR 3DEG.

					and the second							
1	1	1	50160.00	0.00	3255.0	54.7	3.0	10.0	20.2	61.9	61.9	
2	-1	3	2669.13	50.00	2305.0	85.9	0.0	0.0	20.2	106.1	106.1	
3	3	1	50166-00	0.00	14500.0	59.5	3.0	10.0	18.0	04.5	106.1	
4	-3	2	2019-10	30.00·	5100.0	94.0	0,.0	0.0	18.0	112.0	113.4	B707
5	7	1	50166.00	0.00	12290.0	67.2	3.0	10.0	23.4	77.6	113.4	
6	- 7	2	2669-13	90.00	4530.0	ც გ. 5	0.0	6.0	23.4	111.9	145.0	B727
7	17	1	50160.00	0.00	12460.0	60.2	ن،د	10.0	15.6	o 2. d	115.0	
8	-17	2	داده،اع	90.00	პაი ∪.∪	82.4	u.0	U. U	15.6	98.0	115.6	
9	14	1	50166.00	U. 0U	15200.0	62.3	3.0	16.0	16.9	66.2	115.8	
10	-14	2	2664.13	90.00	5208.0	95.u	0.0	6.0	16.9	111.9	117.3	DC8
11	2	1	50160.00	0.00	35300.0	64.2	3.0	10.0	24.7	75.9	117.3	
12	-2	2	2669•15	90.00	12100.0	81.0	0.0	0.0	۷4.7	105.6	11/.0	
13	11	1	50160.00	U. 00	12200.0	66.9	ن• د	10.0	21.0	74.0	117.0	
14	-11	2	2069.13	90.00	5411.0	85.5	U.0	0.0	21.0	106.5	117.9	

(a) Page 1.

Figure A-47. - 23-Airport, refan new JT8D's, 1981 - cutback takeoff, standard approach.

15	18	1	50166.06	0.00 43256.0	71.3 3	. u	16.0	17.4	17.5	**/**
16 -	-18	2	2015.13	50.06 12100.6	74.4 0	. u	6. 0	17.2	フじ。4	110.0
17	10	1	50110.00	0.00 12900.0	57.1 3	٠.0	10.0	1/.1	01.0	110.0
16 -	- T C	2	2619.10	90.00 4330.0	03.5 ك	. U	6.0	17.1	100° A	110.0
15	19	1	50160.00	J.UJ 13160.0	31.5 3	٠.	16.0	9. 5	5 -ناد	TT0.A
۷٠ ٠	-19	2	267.15	0.00 0000000	75.3 U	.0	6. 0	5.9	81.2	113.0
<u>21</u>	12	1	50166.00	0.00 12750.0	د 7.6د	.0	10.0	8.9	53.5	113.0
22	-12	2	CCEA.TO	50.00 55/0.0	77.7 0	. u	6.0	٥.٧	06.5	110.1

41		Y 5	IS F	CF	ursh	kv č	ι. Δ	T (104:	63.	υυ,		U • •	(0)					
												s	A T		J				
		۸.	MS									H	E N		E			5	
F	h	r r	AF									F	Ü		Δ			b	
IN	,	C PT	XG IM								ВP	L U	T		1	۲		ر بر ال بر	
GF			ME						*. "		AN SD	l N	I U		U	N., EL	•	N1 JA	
TH	,	T -	MT		F			ಚ	PFI	١	ĖЬ	G	ΙŃ		5	Tu		B L	

DIAGNESTIC FUR 23 AIRPURT AVE REFANZINEN OD 1981 BAST MANON FAR SDEG.

1	1	5	4340.10	40.UU	∠8996 C	ت 2. 7	U.U	6. 0	20.2	105.4	102.9	
2	-1	1	90163.00	 00	2251.0	32. 2	3.0	15.0	۷۰،	34.4	102.9	
3		5	4100.60	40.00	12000.0	94.9	U.U	0. 0	10.0	112.9	113.5	B707
4	-3	1	51553.UU	J. UU	5100.0	31.1	ں و د	15.0	18.0	51.1	112.3	
E	7	E.	312'7 . 00	Curadu	8050-0	b.7_b.	0-1)	ing a) 4. u	1 ()	112.6	

(b) Page 2.
Figure A-47.- Continued.

6	- 7	1	90163.00	0.00	4550.0	33.8	3.0	15.0	23.4	د •؟ د	115.4	
. [7]	1.7	5	015/028	50.00	0330.0	75.7	C.O	C.0	15.6	94.2	115.4	
8	-17	1	00.61369	U. O U	J060.0	∠4. 6	3.0	15.0	15.6	22.2	115.4	
9	14	4.	+169.30	90.00	11530.0	46.6	0.0	0.0	10.9	113.5]117.0	DC8
10	-14	1.	97553.00	0.00	5208.0	1.3	3.0	15.0	16.9	U•	117.5	
11		; 5 .	4001.12	90.00	∠5800 . 0	60.4	0.0	0. 0	24.7	105.1	111.0	ه ب دن ه او
12	-2	1	98662.00	0.0 0	12100.0	د.82	3.0	15.0	24.7	34.9	117.8	
13	11	5	9528.30	50.00	9000.0	76.3	U. U	0.0	21.0	97.2	117.8	
14	-11	1	98643.00	υ. υυ	5411.0	28.0	3.0	15.0	21.0	31.0	117.8	
15	1 ε	ć	dC52.80	50.00	31600.0	76.4	0.0	0. 0	13.2	y5./	111.9	
16	-18	1	58683.00	0.00	12100.0	20.5	3.0	15.0	19.2	27.7	111.9	
17	Lu	5	545 5. 5∠	9 0. 00	8230.0	83.0	U.O	G.U	17.1	100.0	117.9	
18	-10	-1	98763.00	0. 00	4330.0	49.4	3.0	15.0	17.1	4 t • 5	117.9	
15	19	5	a276.78	90.00	0.09ده	67.2	0.0	0. 0	5.9	72.1	1.7.9	
20	-19	1	99813,00	Ŏ. UO	3660.0	18.0	ں.ذ	15.0	5. Š	6.5	117.9	
21	12	5	8566.13	50 - 00	9 ₀ 00.0	6 8.4	U. U	0.0	8•9	77.,	117.9	
22	-12	1	98643.00	J. 00	5370.0	36.6	3.0	 15.0	8.9	27.4	117.9	

(c) Page 3.

Figure A-47. - Concluded.

ORIGINAL PAGE IS OF POOR QUALITY

ANA	ALYS	IS F	OR CBSERVI	ER AT (-25814	.00,		0.00	,			
FN LU IM GB HE TR		MS AE XG IM ME UN MT		B	PFN	E BP AN SD EB	I N	ATTENUATION	O P F R A T I O N S	E P NN ED TB	S U B ET PU NT DA BL	
		(DIAGNESTIC	FUR 23	AIRPORT	AVG RI	-N/N	EW 8D	BASE	1981	MAXGW	FAR 6-3DEG
1	7	1	25914.00	0.00	12290.0	76.9	3.0	10.0	23.4	87.4	87.4	
2	-7	3	2114.40	90.00	1800.0	89.2	0.0	0.0	23.4	112.7	112.7	8727
3	17	1	25914.00	0.00	12460.0	70.3	3.0	10.0	15.6	72.9	112.7	
4	-17	3	1877.72	90.00	2100.0	84.5	0.0	0.0	15.6	100-1	112.9	
5	2	1	25914.00	0.00	35300.0	71.6	3.0	10.0	24.7	83.3	112.9	
6	-2	3	2114.40	90.00	8400.0	80.0	0.0	0.0	24.7	104.6	113.5	
7	11	1	25914.00	0.00	12200.0	74.7	3.0	10.0	21.0	82.7	113.5	
8	-11	3	2114.40	90.00	2800.0	83.5	0.0	0.0	21.0	104.4	114.0	
9	18	1	25914.00	0.00	43250.0	77.8	3.0	10.0	19.2	84.0	114.0	
10	-18	3	2114.40	90.00	8400-0	78.2	0.0	0.0	19.2	97.4	114.1	
11	1	. 1	25914.00	0.00	3355.0	66.5	3.0	10.0	20.2	73.7	114.1	
12	-1	3	1776.39	90.00	1615.0	84.0	0.0	0.0	20.2	104.2	114.6	
13	14	1	25914.00	0.00	15200.0	72.8	3.0	10.0	16.9	76.7	114.6	
14	-14	3	1996.11	90.00	2600.0	93.7	0.0	0.0	16.9	110.6	116.0	

(a) Page 1.

Figure A-48. - 23-Airport, refan new JT8D's, 1981 - cutback takeoff, two-segment approach.

15 3 1 25914.00 0.00 14500.0 71.0 3.0 10.0 18.0 76.0 116.0

16 -3 3 1996.11 90.00 2500.0 95.5 0.0 0.0 18.0 113.5 118.0 B707

17 10 1 25914.00 0.00 12900.0 67.7 3.0 10.0 17.1 71.8 118.0

18 -10 3 2114.40 90.00 1800.0 82.4 0.0 0.0 17.1 99.4 118.0

19 19 1 25914.00 0.00 13160.0 50.5 3.0 10.0 5.9 43.4 118.0

20 -19 3 1877.72 90.00 2100.0 77.6 0.0 0.0 5.9 83.5 118.0

21 12 1 25914.00 0.00 12750.0 65.3 3.0 10.0 8.9 61.1 118.0

AN	ALY	SIS	FOR	OBSERVER	AT (104773	.00,		0.00) · :		
									Α			
								•	T	0		
	Ā							H	Ē	E		s
FN	I R	M A						I E	N U	R A		U B
LU	-	X T I	-				. E	L	A -	Ţ	E	ET
IM GB		Y M					BP AN	1	İ	0	NN	PO NT
HE		P U	100	н	В	PFN	SD EB	N G	O N	N S	ED TB	DA BL

DIAGNESTIC: FOR: 23 AIRPORT AVG REN/NEW 8D BASE 1981 MAXGW FAR 6-3DEG

1 7 5 5139.13 90.00 8060.0 87.8 0.0 0.0 23.4 111.2 111.2
2 -7 1 98973.00 0.00 4330.0 33.8 3.0 15.0 23.4 39.2 111.2
3 17 5 8372.77 90.00 8330.0 75.6 0.0 0.0 15.6 91.2 111.3
4 -17 1 100023.00 0.00 3660.0 24.6 3.0 15.0 15.6 22.1 111.3
5 2 5 4811.41 90.00 25800.0 80.4 0.0 0.0 24.7 105.1 112.2
(b) Page 2.

Figure A-48. - Continued.

6	-2	1	98273.00	0.00	12100.0	28.2	3.0	15.0	24.7	34.9	112.2	
7	11	5	9547.39	90.00	9600.0	76.3	0.0	0.0	21.0	97.2	112.3	
8	-11	1.	98853.00	0.00	5411.0	28.0	3.0	15.0	21.0	30.9	112.3	
9	18	6	8070-26	90.00	31600.0	76.4	0.0	0.0	19.2	95.6	112.4	
10	-18	1	98273.00	0.00	12100.0	26.4	3.0	15.0	19.2	27.7	112.4	
11	1	5	4952.13	90.00	2800.0	82.7	0.0	0.0	20.2	102.8	112.9	
12	-1	1	96973.00	0.00	2281.0	32.1	3.0	15.0	20.2	34.3	112.9	
13	14	4	4177.80	90.00	11530.0	96.5	0.0	0.0	16.9	113.4	116.2	DC8
14	-14	1	97803.00	0.00	5208.0	1.2	3.0	15.0	16.9	0.1	116.2	
15	3	5	4193.64	90.00	12080.0	94.9	0.0	0.0	18.0	112.9	117.8	B707
16	-3	1	97803.00	0.00	5100.0	31.1	3.0	15.0	18.0	31.1	117.0	
17	10	5	5463.18	90.00	8230.0	83.0	0.0	0.0	17.1	100.0	117.9	
18	-10	1	98973.00	0.00	4330.0	49.4	3.0	15.0	17.1	48.4	117.9	
19	19	5	8592.27	90.00	8390.0	67.1	0.0	0.0	5.9	73.1	117.9	
20	-19	1	100623.00	0.00	3660.0	18.5	3.0	15.0	5.9	6.4	117.9	
21	12	5	9003.57	90.00	9600.0	68.4	0.0	0.0	8.9	77.3	117.9	
22	-12	1	98853.00	0.00	5370.0	36.5	3.0	15.0	8.9	27.4	117.9	

(c) Page 3. Figure A-48. - Concluded.

AN	ALYS!	IS F	OR CBSERVE	R AT (-21560	.00,		0.00	1			
FN LU IM GP HE TR	R C RT AY FP			**************************************	PĖN	E BP AN SD EB	S H I E L D I N G	ATTENUATION	O P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
			TAGNESTIC	FUR 23	AIRPORT	AVG R	N/NF	W 8D	1981	SA M3D	MAXGW	FAR 6-3DEG
1	7	1	21660.00	0.00	12290.0	79.6	3.0	10.0	23.4	90.0	90.0	
2	-7	3	1669.74	90.00	1800.0	92.1	0.0	0.0	23.4	115.5	115.5	8727
3	17	1	21660.00	0.00	12460.0	73.1	3.0	10.0	15.6	75.6	115.5	
4	-17	3	1506.96	90.00	2100.0	87.4	0.0	0.0	15.6	102.9	115.8	
5	2	1	21660.00	0.00	35300.0	73.6	3.0	10.0	24.7	85.3	115.8	
6	-2	3	1669.74	90.00	8400.0	83.1	0.0	0.0	24.7	107.7	110.4	DC10
7	11	1	21660.00	0.00	12200.0	76.9	3.0	10.0	21.0	84.8	116.4	
8	-11	3	1669.74	90.00	2800.0	86.5	0.0	0.0	21.0	107.5	116.9	
9	18	1	21660.00	0.00	43250.0	79.6	3.0	10.0	19.2	85.8	116.9	
10	-18	3	1669.74	90.00	8400.0	81.3	0.0	0.0	19.2	100.5	117.0	
11	1.	1	21660.00	0.00	3355.0	69.7	3.0	10.0	20.2	76.9	117.0	
12	-1	3	1368.66	90.00	1615.0	86.9	0.0	0.0	20.2	10 7. 1	117.4	
13	15	1	21660.00	0.00	15200.0	77.0	3.0	10.0	16.9	80.9	117.4	
14	-15	3	1588.38	90.00	2600.0	90.1	0.0	0.0	16.9	107.0	117.8	

Figure A-49. - 23-Airport, refan new JT8D's, 1981 - cutback takeoff, two-segment approach, SAM JT3D.

15	3	1	21660.00	0.00	14500.0	74.1 3.0	10.0	-2.2	58.9 117.8
16	-3	3	1588.38	90.00	2500.0	98.4 0.0	0.0	-2.2	96.2 117.8
17	4	1	21660.00	0.00	14500.0	72.7 3.0	10.0	17.9	77.7.117.8
18	-4	3	1588.38	90.00	2500.0	83.4 0.0	0.0	17.9	101.3 117.9
19	10	1	21660.00	0.00	12900.0	70.4 3.0	10.0	17.1	74.5 117.9
20	-10	3	1669.74	90.00	1800.0	84.8 0.0	0.0	17.1	101.9 118.0
21	19	1	21660.00	0. 00	13160.0	54.1 3.0	10.0	5.9	47.0: 118.0
22	-19	3	1506.96	90.00	2100.0	80.5 0.0	0.0	5.9	86.4 118.0
23	12	1	21660.00	0.00	12750.0	67.4 3.0	10.0	8.9	63.2 118.0
24	-12	3	1669.74	90.00	2800.0	79.2 0.0	0.0	8.9	88.1 118.1

1	INA	LYS	IS	FOR	OBSERVER	LAT (78484.00,		0.001	
									A	
								S	T C	
		A I	MS					H I	E E	s de la la completa de la completa de la completa de la completa de la completa de la completa de la completa d La completa de la completa de la completa de la completa de la completa de la completa de la completa de la co
F	N.	R	AF					E	U A	В
t	.U	C	XG					E L	Α 1	E ET
1	[M	RT	IM				8	PD	T 1	P PO
. (B	AY	ME				Δ!	I I	1 29) NN NT
H	IE.	FP	UN		$(x_{i+1}, \underline{\bullet}_i) = (x_{i+1}, \underline{\bullet}_i)$		S	O N	0 1	I ED DA
1	R	TF	MT		H	- B	PFN E	3 G	N S	TB BL

DIAGNESTIC FOR 23 AIRPORT AVG REN/NEW 8D 1981 SAMED MAXGW FAR 6-3DEG

1 7 5 3955.76 90.00 8060.0 91.0 0.0 0.0 23.4 114.5 114.5 *B727*2 -7 1 72684.00 0.00 4330.0 38.9 3.0 15.0 23.4 44.4 114.5
3 17 5 6433.69 90.00 8330.0 79.3 0.0 0.0 15.6 94.8 114.5
4 -17 1 73734.00 0.00 3660.0 29.7 3.0 15.0 15.6 27.3 114.5

(b) Page 2. Figure A-49. - Continued.

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3522.62
                   90.00 25800.0 84.3 0.0 0.0 24.7 108.9 115.6
         71984.00
                   0.00 12100.0 33.0 3.0 15.0 24.7 39.6 115.6
                   90.00 9600.0 80.2 0.0 0.0 21.0 101.2 115.7
          7164.76
          72564.00 0.00 5411.0 33.2 3.0 15.0 21.0 36.2 115.7
                   90.00 31600.0 80.0 0.0 0.0 19.2 99.3 115.8
9 18
          5884.17
          71984.00
                   0.00 12100.0 31.2 3.0 15.0 19.2 32.4 115.8
                   90.00 2800.0 87.0 0.0 0.0 20.2 107.2 116.4
           3452.57
12 -1 1
         70684.00
                   0.00 2281.0 37.3 3.0 15.0 20.2 39.5 116.4
                   90.00 11530.0 91.9 0.0 0.0 16.9 108.8 117.1
  15
          3122.79
                   0.00 5208.0 49.4 3.0 15.0 16.9 48.3 117.1
14 -15 1 71514.00
                   90.00 12080.0 98.6 0.0 0.0 -2.2 96.4 117.1
          3143.20
16 -3 1 71514.00
                   0.00 5100.0 36.9 3.0 15.0 -2.2 16.7 117.1
                   90.00 12080.0 91.8 0.0 0.0 17.9 109.8 117.8 B707 SAM
          3143.20
      1 71514.00
                    0.00 5100.0 34.1 3.0 15.0 17.9 34.0 117.8
19 10 5 4229.39
                    90.00 8230.0 85.6 0.0 0.0 17.1 102.6 118.0
20 -10 1 72684.00
                   0.00 4330.0 52.7 3.0 15.0 17.1 51.8 118.0
          6653.19
                    90.00 8390.0 70.8 0.0 0.0
21 19 5
                                               5.9 76.7 118.0
22 -19 1 73734.00
                   0.00 3660.0 23.6 3.0 15.0 5.9 11.5 118.0
         6895.23
                   90.00 9600.0 71.6 0.0 0.0
  12 5
                                               8.9 80.5 118.0
24 -12 1 72564.00
                   0.00 5370.0 40.1 3.0 15.0
                                               8.9 31.0 118.0
                              (c) Page 3.
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Figure A-49. - Concluded.

ANA	LYS!	IS F	OR OBSERVE	R AT (-17131.	00,		0.00)				
FN LU IM GB HE TR	C RT AY FP	MS AE XG IM ME UN MT	11	B (1)	PFN	E BP AN SD EB	S H I E L D I N G	A T T E N U A T I	O P E R A T I O N S	E P NN ED TB	S U B ET PQ NT DA BL		
		Ü	IAGNOSTIC	FOR 23	AIRPORT	AVG 1	RFN/I	NEW 8D	198	SAM	3D&8D M	MAXGW FAR	6-3DEG
1	20	1	17231.00	0.00	12460.0	77.0	3.0	10.0	15.6	79.6	79.6		
2	-20	3	1120.95	90.00	2100.0	84.5	0.0	0.0	15.6	100.0	100.1		
3	2	1	17231.00	0.00	35300.0	76•2	3.0	10.0	24.7	87.9	100.3		
4	-2	3	1206.78	90.00	8400.0	87.3	0.0	0.0	24.7	111.9	112.2	DC/0	
5	6	1	17231.00	0.00	12200.0	75.5	3.0	10.0	21.0	83.4	112.2		
0	-6	3	1206.78	90.00	2800.0	86.1	0.0	0.0	21.0	107.0	113.4		
7.	8	1	17231.00	0.00	12290.0	82.5	3.0	10.0	23.4	93.0	113.4		
8	-8	3	1206.78	90.00	1800.0	84.3	0.0	0.0	23.4	107.7	114.5		
9	18	1	17231.00	0.00	43250.0	81.8	3.0	10.0	19.2	88.0	114.5		
10	-18	3	1206.78	90.00	8400.0	85.5	0.0	0.0	19.2	104.7	114.9		
11	1	1	17231.00	0.00	3355.0	73.8	3.0	10.0	20.2	81.0	114.9		
12	-1	2	948.90	90.00	1687.7	91.6	0.0	0.0	20.2	111.8	116.6	B147	
13	15	1	17231.00	0.00	15200.0	80.8	3.0	10.0	16.9	84.7	116.6		

(a) Page 1.

0.00 14500.0 78.1 3.0 10.0 -2.2 62.9 117.6

Figure A-50.- 23-Airport, refan new JT8D's, 1981 - cutback takeoff, two-segment approach, SAM JT3D, SAM JT8D.

1163.88 90.00 2600.0 93.6 0.0 0.0 16.9 110.5 117.6

3 1 17231.00

90.00 2500.0 102.3 0.0 0.0 -2.2 100.0 117.6 1163.88 17231.00 0.00 14500.0 76.3 3.0 10.0 17.9 81.2 117.6 90.00 2500.0 86.6 0.0 0.0 17.9 104.5 117.9 1163.88 19 10 1 17231.00 0.00 12900.0 73.9 3.0 10.0 17.1 77.9 117.9 1206.78 90.00 1800.0 88.2 0.0 0.0 17.1 105.2 118.1 20 -10 3 21 19 1 17231.00 0.00 13160.0 58.6 3.0 10.0 5.9 51.5 118.1 1120.95 90.00 2100.0 84.4 0.0 0.0 5.9 90.3 118.1 23 12 1 17231.00 0.00 12750.0 70.0 3.0 10.0 8.9 65.9 118.1 90.00 2800.0 83.0 0.0 0.0 1206.78 8.9 91.9 118.1

A	NA	LYS	IS	FOP	OBSER	RVER A	TI	7305	3.00.		C	.00)				
٠												A T	0			
		A I	MS							S H I		T E N	P E R		S	
F		R	AE XG							E		U	A	tz.	B	
i e	M	RT	IM						BI Al			Ť	I	P	PO	
H	F	FP	UN		u		a	PFN	Si Ei) N		Ö	N	ED TB	DA BL	

DIAGNOSTIC FOR 23 AIRPORT AVG REN/NEW 8D 1981 SAM 3D88D MAXGW FAR 6-3DEG

1 20 5 6033.10 90.00 8330.0 80.3 0.0 0.0 15.6 95.9 95.9

2 -20 1 68303.00 0.00 3660.0 32.2 3.0 15.0 15.3 29.8 95.9

3 2 5 3256.37 90.00 25800.0 85.2 0.0 0.0 24.7 109.9 110.0

-2 1 66553.00 0.00 12100.0 34.2 3.0 15.0 24.7 40.8 110.0

ORIGINAL PAGE IS OF POOR QUALITY

(b) Page 2.

Figure A-50. - Continued.

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6672.54 90.00 9600.0 79.5 0.0 0.0 21.0 100.5 110.5
   -6 1 67133.00
                   0.00 5411.0 44.8 3.0 15.0 21.0 47.8 110.5
         3711.29 90.00 8060.0 89.7 0.0 0.0 23.4 113.1 115.0 B727 SAM
      1 67253.00
                   0.00 4330.0 39.6 3.0 15.0 23.4 45.1 115.0
          5432.55
                   90.00 31600.0 81.0 0.0 0.0 19.2 100.2 115.2
10 -18 1 66553.00
                  0.00 12100.0 32.4 3.0 15.0 19.2 33.6 115.2
                   90.00 2800.0 88.3 0.0 0.0 20.2 108.5 116.0
         3202.53
                  0.00 2281.0 38.6 3.0 15.0 20.2 40.8 116.0
12 -1 1 65253.00
         2904.83
                  90.00 11530.0 92.7 0.0 0.0 16.9 109.6 116.9
14 -15 1 66083.00
                   0.00 5208.0 50.4 3.0 15.0 16.9 49.3 116.9
                   90,00 12080.0 99.6 0.0 0.0 -2.2 97.3 116.9
          2926.19
16 -3 1 66083.00
                  0.00 5100.0 38.4 3.0 15.0 -2.2 18.2 116.9
    4 5 2926.19 90.00 12080.0 92.5 0.0 0.0 17.9 110.4 117.8 B707 SAM
18 -4 1 66083.00
                   0.00 5100.0 35.4 3.0 15.0 17.9 35.3 117.8
19 10 5 3974.50
                   90.00 8230.0 86.2 0.0 0.0 17.1 103.3 118.0
20 -10 1 67253.00
                   0.00 4330.0 53.6 3.0 15.0 17.1 52.6 118.0
21 19 5 6252.60
                  90.00 8390.0 71.6 0.0 0.0 5.9 77.5 118.0
22 -19 1 68303.00
                   0.00 3660.0 24.8 3.0 15.0 5.9 12.7 118.0
23 12 5 6459.66
                   90.00 9600.0 72.4 0.0 0.0 8.9 81.2 118.0
24 -12 1 67133.00
                  0.00 5370.0 41.1 3.0 15.0 8.9 31.9 118.0
```

(c) Page 3. Figure A-50.- Concluded.

ANA	LYS	rs F	OR OBSERVE	R. AT. (-50462.	00,		0.00)			
FN LU IM GB HE TR	R C	UN	H		PFN	BP AN SD EB	S H I E L D I N G	A T E N U A T I O N	0 P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
		D	IAGNOSTIC	FOR 23	ARPT AVG	REN/I	IEW 8	BD B	ASE 19	87	AAXGW A	ATA 3DG
. 1	3	. 1	50562.00	0.00	15200.0	61.1	3.0	10.0	17.4	65.6	65.6	
2	-3	2	2693.31	90.00	5100.0	94.5	0.0	0.0	17.4	111.9	111.9	B707
3	7	1	50562.00	0.00	12300.0	67.1	3.0	10.0	23.1	77.2	111.9	
4	-7	2	2693.31	90.00	4330.0	88.4	0.0	0.0	23.1	111.5	114.7	
5	17	1	50562.00	0.00	12600.0	60.5	3.0	10.0	15.2	62.7	114.7	
6	-17	2	2693.31	90.00	3660.0	82.3	0.0	0.0	15.2	97.5	114.8	
7	14	1	50562.00	0.00	15200.0	62.1	3.0	10.0	17.4	66.5	114.8	
8	-14	2	2693.31	90.00	5208.0	94.8	0.0	0.0	17.4	112.2	116.7	DC8
9	2	1	50562.00	0.00	35300.0	64.1	3.0	10.0	25.9	77.0	116.7	
10	-2	2	2693.31	90.00	12100.0	80.8	0.0	0.0	25.9	106.8	117.1	
11	11	1	50562.00	0.00	12200.0	66.7	3.0	10.0	20.7	74.5	117.1	
12	-11	2	2693.31	90.00	5411.0	85.4	0.0	0.0	20.7	106.1	117.4	
13	1	1	50562.00	0.00	3355.0	54.5	3.0	10.0	21.6	63.1	117.4	
14	-1	3	2693.31	90.00	2305.0	85.8	0.0	0.0	21.6	107.3	117.8	

(a) Page 1.

Figure A-51. - 23-Airport, refan new JT8D's, 1987 - standard takeoff, standard approach.

15	18	1	50562.00	0.00	43250.0	71.2	3.0	10.0	21.4	79.6	117.8
16	-18	2	2693.31	90.00	12100.0	79.0	0.0	0.0	21.4	100.5	117.9
17	10	1	50562.00	0.00	12900.0	57.6	3.0	10.0	17.2	61.8	117.9
18	-10	2	2693.31	90.00	4330.0	83.8	0.0	0.0	17.2	101.0	118.0
19	19	1	50562.00	C.00	13160.0	37.4	3.0	10.0	7.5	31.8	118.0
20	-19	2	2693.31	90.00	3660.0	75.2	0.0	0.0	7.5	82.6	118.0
21	12	1	50562.00	0.00	12750.0	57.5	3.0	10.0	10.5	54.9	118.0
22	-12	2	2693.31	90.00	5370.0	77.6	0.0	0.0	10.5	88.0	118.0

												A	0					
	Ā										S	Ť.	P E				S	
FN LU	R C	MS AE XG								Ε	E L	N U A	R A T		É	E	J B T	
IM GB HE		IM ME UN								BP AN SD	D I N	T I O	I O	•	NN ED	P N	ľ	
TR		MT		Й			В	PF!	V	EB	G	N	N S		ED TB	D B		
		() I A GN	NOS T	IC.	FOR	23	ARPT	AVG	RFN/	NEW 8	3 D	BASE	19	9 7	MAXGW	ATA	3DG
1	3	6	40	87.	10	90	0.00	1230	0.0	94.2	0.0	0.0	17.	4	111.6	111.	6 B	707
2	-3	1	803	312.	00	. (0.00	510	0.0	34.8	3.0	15.0	. 17	4	34.2	2 111.	6	

7 6 7453.65 90.00 10230.0 87.2 0.0 0.0 23.1 110.3 114.0

-7 1 81482.00 0.00 4330.0 37.0 3.0 15.0 23.1 42.1 114.0

87282.00,

ANALYSIS FOR OBSERVER AT (

(b) Page 2. Figure A-51. - Continued.

5	17	6	8462.02	90.00	10300.0	78.4	0.0	0.0	15.2	93.6	114.0	
6	-17	1	82532.00	0.00	3660.0	27.8	3.0	15.0	15.2	25.0	114.0	
7	14	6	4087.10	90.00	12300.0	95.9	0.0	0.0	17.4	113.3]116.7	DC8
8	-14	1	80312.00	0.00	5208.0	6.9	3.0	15.0	17.4	6.2	116.7	
9	2	5	3953.94	\$0 . 00	25800.0	82.9	0.0	0.0	25.9	108.8	117.4	
10	-2	1	80782.00	0.00	12100.0	31.2	3.0	15.0	25.9	39.1	117.4	
11	11	6	6863.41	90.00	10600.0	82.0	0.0	0.0	20.7	102.7	117.5	
12	-11	1	81362.00	0.00	5411.0	31.3	3.0	15.0	20.7	34.0	117.5	
13	1	5	3954.42	90.00	2800.0	85.6	0.0	0.0	21.6	107.2	117.9	
14	-1	1	79482.00	0.00	2281.0	35.4	3.0	15.0	21.6	39.0	117.9	
15	18	6	6615.78	90.00	31600.0	78.7	0.0	0.0	21.4	100.1	118.0	
16	-18	1	80782.00	0.00	12100.0	29.4	3.0	15.0	21.4	32.8	118.0	
17	10	6	8614.43	90.00	11200.0	78.4	0.0	0.0	17.2	95.6	118.0	
18	-10	1	81482.00	0.00	4330.0	51.5	3.0	15.0	17.2	50.7	118.0	
19	19	6	10833.86	90.00	11000.0	62.5	0.0	0.0	7.5	70.0	118.0	
20	-19	1	82532.00	0.00	3660.0	21.7	3.0	15.0	7.5	11.2	118.0	
21	12	5	10531.15	90.00	11300.0	68.5	0.0	0.0	10.5	79•0	118.0	
22	-12	1	81362.00	0.00	5370.0	38.8	3.0	15.0	10.5	31.3	118.0	

(c) Page 3.

Figure A-51.- Concluded.

. DIAGNESTIC FOR 23 ARPT AVG REN/NEW 8D BASE 1987 MAXWW ATA 6-30G.

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DA

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			and the factor									
1	3	1	25 833.00	0.00	15200.0	72.6	3. 0	16.0	17.4	77 . U	77.0	
2	-3	3	1988.35	90.00	2500.0	95.6	0.0	0.0	17.4	113.0	113.0	B707
3	7	1	25833.00	J.00	12300.0	77.0	3.0	10.0	23.1	8 7• 1	113.0	
4	-7	3	∠105.94	90.00	1800.0	89.3	0.0	0.0	23.1	112.4	115.7	B727
5	17	1	25 833.00	0.00	12600.0	70.7	3.0	10.0	15.2	72.9	115.7	
6	-17	3	1870.66	90.00	2100.0	84.6	ი.ა	0.0	15.2	99.8	115.8	
7	14	1	25833.00	0.00	15200.0	72.9	3. ა	10.0	17.4	77.2	115.8	
8	-14	3	1-988-35	90.00	2600.0	93.7) :0	0.0	17.4	111.1	117.1	
G	2	1	25833.00	0.00	35300.0	71.7	3.0	10.0	25.9	84.6	117.1	
10	-2	3	2105.94	90.00	8400.0	80.0	0.0	0.0	25.9	105.9	117.4	
11	11	1	25833.00	0.00	12200.0	74•8	3.0	10.0	20.7	82.5	117.4	
12	-11	3	2105.94	90.00	2800.0	83.5	0.0	υ.υ	20.7	104.2	117.6	
13	1	.1	25 833.00	J.00	3355.0	66.6	3.0	10.0	21.6	75.2	117.6	
14	-1	3	1768.62	90.00	1615.0	84.0	0.0	0.0	21.6	105.6	117.9	

(a) Page 1.

Figure A-52.- 23-Airport, refan new JT8D's, 1987 - standard takeoff, two-segment approach.

15	18	. 1	25833.00	0.00 43250.0	77.8 3	.0 10.0	21.4	86.2 117.9
16	-18	3	2165.94	90.00 8400.0	78.2 0	.0.0	21.4	99.6 118.0
17	10	1	25833.00	0.00 12900.0	67.8 3	.0 10.0	17.2	71.9 118.0
18	-10	3	2105.94	90.00 1800.0	82.4 U	.0 0.0	17.2	99.6 118.0
19	19	1	25 833.00	0.00 13160.0	5 0.6 3	.0 10.0	7.5	45.1 110.J
20	-19	3	1870.66	90.00 2100.0	77.6 0	.0 0.0	7.5	85.1 118.0
21	12	1	25833.00	0.00 12750.0	65.3 3	.0 10.0	10.5	62.8 118.0
22	-12	3	2105.94	90.00 2800.0	76.5 U	.0 0.0	10.5	87.0 118.0

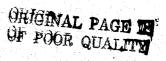
ANA	LYS	IS	FOR	CBS	ERV	ER A	AT (872	91.0	00,			0.0	00)				
			4.7										A		O			
	Α	MS									S	i	T E N		P E R			S
FN	ם ק	AF XG								F	Ē		Ü		A		E	BET
IM	RT AY	J M								BP AN	C)	T 1		I		P NN	PO NT
HE	ΕÞ	UN		н			В	PFN		SD EB	, C	1 5	O N		N S	•	ED.	RF DV

DIAGNOSTIC FOR 23 ARPT AVG REN/NEW 8D BASE 1987 MAXGW ATA 6-3DG.

1 3 6 4087.65 90.00 12300.0 94.2 0.0 0.0 17.4 111.6 111.6 B707
2 -3 1 80321.00 0.00 5100.0 34.8 3.0 15.0 17.4 34.2 111.6
3 7 6 7454.78 90.00 10230.0 87.2 0.0 0.0 23.1 110.2 114.0
4 -7 1 81451.00 0.00 4330.0 37.0 3.0 15.0 23.1 42.1 114.0

(b) Page 2.

Figure A-52. - Continued.



	114.0	93.6	15.2	0.0	0.0	78.4	10300.0	90.00	8462.89	6	17	5
ما العقاد	114.0	25.0	15.2	15.0	3.0	27.8	3660.0	0.00	82541.00	1	-17	6
DC8	116.7	113.3	17.4	0.0	0.0	95.9	12300.0	90.00	4087.65	6	14	7
i Luşu a	116.7	6.2	17.4	15.0	3.0	6.9	5208.0	J.00	80321.00	1	-14	8
	117.3	108.8	25.9	0.0	0.0	82.9	25800.0	90.00	3954.38	5	2	9
	117.3	39.1	25.9	15.0	3.0	31.2	12100.0	U• 00	80791.00	1	-2	10
	117.5	102.7	20.7	0.0	0.0	82.0	10600.0	90.00	6864.37	6	11	11
	117.5	34.0	20.7	15.0	3.0	31.3	5411.0	U. 00	81371.00	1	-11	12
	117.9	107.2	21.6	0.0	0.0	85.6	2800.0	90.00	3 954 94	5	1	13
	117.9	39.0	21.6	15.0	3.0	35.4	2281.0	0.00	79491.00	1	-1	14
	118.0	100-1	21.4	0.0	0.0	78.7	31600.0	90.00	6616.53	6	1.8	15
	118.0	32.8	21.4	15.0	3.0	29.4	12100.0	0.00	80751.00	1	-18	16
	118.0	95.6	17.2	0.0	0.0	78.4	11200.0	90.00	8625.89	6	10	17
	118.0	50.7	17.2	15.0	3.0	51.5	4330.0	U. 00	81491.00	1	-10	18
	118.0	7 <u>0.</u> 0	7.5	0.0	0.0	62.5	11000.0	90,00	10835.03	6	19	19
	118.0	11.2	7.5	15.0	3.0	21.7	3660.0	0.00	82541.00	1	-19	20
	118.0	79.0	10.5	0.0	0.0	68.5	11300.0	90.00	10532.34	5	12	21
	118.0	31.3	10.5	15.0	3.0	38.8	5370.0	0.00	81371.00	1	-12	22
	and the second second						and the second second second					

(c) Page 3. Figure A-52. - Concluded.

ANA	LYS	IS F	OR CBSERVE	R AT (-21753.	19,		0.00)		•	
FN LU IM GB HF	R C RT AY	MS AF XG IM ME UN MT		В	PFN	E BP AN SD EB	S H I E L D I N G	A T T N U A T I O N	D P R A T I O N S	E P NN ED TB	S U B ET PU NT UA BL	
			JAGNESTIC !	FOR 23	APT AVG	RF N/NE	W 81	SAM3	1987	MAXGW	ATA 6	-3UG
1	3	1	21853.18	0:00	15200.0	75.5	3.0	10.0	0.8	63.2	03.2	
2	-3	3	1606.90	90.00	2500.0	98.2	0.0	0.0	0.8	99.0	99.0	esendi (Pari) • ••••
3	4	1	21853*18	J.0 0	15200.0	74.7	3.0	10.0	17.3	79.0	99.1	
4	-4	3	1606.90	90.00	2500.0	83.3	0.0	0.0	17.3	1,00.6	102.9	
5	7	1	21853.18	0.00	12300.0	79.5	3.0	10.0	23.1	89.6	103.1	
6	-7	3	1689.93	90.00	1800.0	92.0	0.0	0.0	23.1	115.0	115.3	B727
7	17	1	21853.18	0.00	12600.0	73.3	3.0	10.0	15.2	75.5	115.3	
8	-17	3	1523.79	90.00	2100.0	87.2	0.0	0.0	15.2	102.4	115.5	
9	15	1	21853.18	0.00	15200.0	76.9	3.0	10.0	17.4	81.2	115.5	
10	-15	3	1606.90	90.00	2600.0	89.9	0.0	0.0	17.4	107.3	116.1	
11	2	1	21853.18	0.00	35300.0	73.5	3.0	10.0	25.9	86.5	116.1	
12	-2	3	1689.93	90.00	8400.0	82.9	0.0	0.0	25.9	108.3	116.9	DCIO
13	11	_1	21853.18	0.00	12200.0	76.7	3.0	10.0	20.7	84.5	116.9	
14	-11	3	1689.93	90.00	2800.0	86.4	0.0	0.0	20.7	107.1	117.3	

(a) Page 1.

Figure A-53.- 23-Airport, refan new JT8D's, 1987 - standard takeoff, two-segment approach, SAM JT3D.

15	1	1	21853.18	U.00	3355.0	69.6	3.0	10.0	21.6	78.2	117.3
16	-1	3	1367.17	90.00	1615.0	86.7	0.0	0.0	21.6	108.3	117.8
17	18	1	21853.18	0.00	43250.0	79.5	3.0	10.0	21.4	87.9	117.8
18	-18	3	1689.93	90.00	8400.0	81.1	0.0	0.0	21.4	102.5	118.0
19	10	1	21853.18	0.00	12900.0	70.3	3.0	10.0	17.2	74.5	110.0
20	-10	3	1689.93	90.00	1800.0	84.7	0.0	C. 0	17.2	101.9	118.1
21	10	1	21853.18	0.00	13160.0	53.9	3.0	10.0	7.5	48.4	118.1
22	-19	3	1523.79	90.00	2100.0	80.3	0.0	0.0	7.5	87.8	118.1
23	12	1	21853.18	0.00	12750.0	67.3	3.0	10.0	10.5	64.7	118.1
24	-12	3	1689.93	90.00	2800.0	79.1	0.0	0.0	10.5	89.5	118.1

AMALYSIS FOR	CBSERVER AT (75455.00,	C.(0)		
			A T		
A I MS		S H I	T E N	P F R	S
FN R AS LU C XG IM RT IM		E L	U A	A T	В ЕТ
GB AY MF HE EP UN		BP D AN I SD N	I	O NN. N ED	PÜ NT DA
TR TE MT	н 8	PFN EB G	N	S TB	BL

DIAGNUSTIC FOR 23 APT AVG REN/NEW 8D SAMED 1987 MAXGW ATA 6-5UG

1 3 5 3387.28 90.00 12418.7 97.0 0.0 0.0 0.8 97.8 97.8
2 -3 1 68485.00 0.00 5100.0 37.7 3.0 15.0 0.8 20.5 97.8
3 4 5 3367.28 90.00 12418.7 90.8 0.0 0.0 17.3 108.1 108.5
4 -4 1 68485.00 0.00 5100.0 34.8 3.0 15.0 17.3 34.1 108.5

(b) Page 2.

Figure A-53. - Continued.

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7 6 5977.48 90.00 10230.0 89.8 0.0 0.0 23.1 112.9 114.3 B727
6 -7 1 69655.00 U.00 4330.0 39.6 3.V 15.0 23.1 44.7 114.3
                   90.00 10300.0 80.4 0.0 0.0 15.2 95.6 114.3
          7307.90
 8 -17 1 70705.00 0.00 3660.0 30.5 3.0 15.0 15.2 27.0 114.3
         3387.28
                  90.00 12418.7 92.5 0.0 0.0 17.4 109.9 115.7
                 0.00 5208.0 49.9 3.0 15.0 17.4 49.3 115.7
10 -15 1 + 68485.00
    2 5 3374.13 90.00 25800.0 84.8 0.0 0.0 25.9 110.7 116.9 DC/O
   -2 1 68955.00 0.00.12100.00.33.6 3.0 15.0 25.9 41.5 116.9
13 11 6 5592.25
                  90.00 10600.0 84.7 0.0 0.0 20.7 105.4 117.2
14 -11 1 69535.00
                  0.00 5411.0 34.0 3.0 15.0 20.7 36.7 117.2
    1 5 3279.80 90.00 2800.0 87.6 0.0 0.0 21.6 109.1 117.8
                  0.00 2281.0 38.0 3.0 15.0 21.6 41.6 117.8
16 -1 1 67655.00
         5632.29 90.00 31600.0 80.5 0.0 0.0 21.4 102.0 117.9
18 -18 1 68955.00 0.00 12100.0 31.8 3.0 15.0 21.4 35.3 117.9
19 10 6 7244.97
                  90.00 11200.0 80.6 0.0 0.0 17.2 97.8 118.0
20 -10 1 69655.00
                  0.00 4330.0 53.2 3.0 15.0 17.2 52.4 118.0
                   50.00 11000.0 65.5 0.0 0.0 7.5 73.0 118.0
          9290.12
22 -19 1 70705.00
                 0.00 3660.0 24.3 3.0 15.0
                                             7.5 13.7 118.0
23 12 5 8966.96 90.00 11300.0 70.4 0.0 0.0 10.5 80.9 118.0
                  0.00 5370.0 40.6 3.0 15.0 10.5 33.1 118.0
24 -12 1 69535.00
                              (c) Page 3.
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Figure A-53. - Concluded.

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1	3	1	18052.00	0.00	15200.0	78.7	3.0	10.0	0.8	66.5	66.5	
- 2	- 3	3	1242.57	90-00	2500-0	101-4	0.0	0.0	0.8	102.2	102-2	
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. 3	4	. 1	18052.00	0.00	15200.0	7.7 • 6	3.0	10.0	17.3	81.9	102.3	
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4	-4	3	1242.57	90.00	2500.0	85.9	0.0	0.0	17.3	103.2	105.8	
_	20	,	18052.00	0.00	13600 0	74 4	2.0	10.0	16 2	70 0	105 0	
ر	2.0		10052.00	0.00	12000.0	10.0	3.0	10.0	19.2		102.0	
ပ်	-50	3	1192.50	90.00	2100.0	83.7	0.0	0.0	15.2	98.9	106.6	
7	15	1	18052.00	0.00	15200.0	80.0	3.0	10.0	17-4	84.4	106.6	
•												
	1.2								17. 14.1 <u>1</u> .1			
8	-15	_ 3 _	1242.57	90.00	2600.0	92.8	0.0	0.0	17.4	110.2	111.8	
9	2	1	18052.00	0.00	35300.0	75.7	3.0	10.0	25.9	88.6	111.8	
	1								•			
	-		1292.60	00 00	9400 0	04.4	a a	Λ	25 0	1112	1	Min
1.0	-2		12~2.60	20.00	8400.0	80.4	0.0	ີດ•ົກ	25.9	112.3	ITT2.T	DC10
11	6	1	18052.00	0.00	12200.0	74.8	3.0	10.0	20.7	82.5	115.1	
1:	-6	3	1292.60	90-00	2800-0	85.5	0.0	0.0	20.7	106.2	115.6	
				2 W W W W			J J	•••		*****		
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13	1	1	18052.00	0.00	3355.0	73.0	3.0	10.0	21.6	81.6	115.6	الكراوة الكويعا الأرابي
										emple in		
14	-1	3	1022.85	90.00	1615.0	90.1	0.0	0.0	21.6	111.7	117.1	B747
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(a) Page 1.

Figure A-54. - 23-Airport, refan new JT8D's, 1987 - standard takeoff, two-segment approach, SAM JT3D, SAM JT8D.

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16 -8 3 1292.60 90.00 1800.0 83.7 0.0 0.0 23.1 106.7 117.5
18 -18 3 1292.60 90.00 8400.0 84.6 0.0 0.0 21.4 106.0 117.8
19 10 1 18052.00 0.00 12900.0 73.2 3.0 10.0 17.2 77.4 117.8
20 -10 3 1292.60 90.00 1800.0 87.5 0.0 0.0 17.2 104.7 118.0
21 19 1 18052.00 0.00 13160.0 57.7 3.0 10.0 7.5 52.1 118.0
22 -19 3 1192.50 90.00 2100.0 83.6 0.0 0.0 7.5 91.0 118.0
23 12 1 18052.00 0.00 12750.0 69.5 3.0 10.0 10.5 66.9 118.0
24 -12 3 1292.60 90.00 2800.0 82.2 0.0 0.0 10.5 92.7 118.0
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       DIAGNUSTIC FOR 23 ARPT AVG REN/NEW 8D SAMSDERD 1987 MAXGW ATA 6-3DG
1 3 5 3377.13 90.00 12600.0 97.7 0.0 0.0 0.8 98.5 98.5
 2 -3 1 67809.00 0.00 5100.0 37.9 3.0 15.0 0.8 .20.7 98.5
 3 4 5 3377.13 90.00 12600.0 91.7 0.0 0.0 17.3 109.0 109.4
 4 -4 1 67809.00 0.00 5100.0 35.0 3.0 15.0 17.3 34.3 109.4
                         (b) Page 2.
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Figure A-54.- Continued.

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90.00 10300.0 80.8 0.0 0.0 15.2 96.0 109.6
          7241.94
 6 -20 1 70029.00
                   0.00 3660.0 31.8 3.0 15.0 15.2 29.0 109.6
                   90.00 12600.0 93.5 0.0 0.0 17.4 110.9 113.3 DC8 SAM
          3377.13
                    0.00 5208.0 50.0 3.0 15.0 17.4 49.4 113.3
 8 -15 1 67809.00
                    90.00 25800.0 84.9 0.0 0.0 25.9 110.8 115.2
         3340.99
                   0.00 12100.0 33.8 3.0 15.0 25.9 41.7 115.2
10 -2 1 63279.00
                    90.00 10600.0 83.0 0.0 0.0 20.7 103.8 115.5
      6 5519.60
   -6 1 68859.00
                   C.00 5411.0 44.5 3.0 15.0 20.7 47.2 115.5
         3241.24
                   90.00 2800.0 87.7 0.0 0.0 21.6 109.3 116.5
                   0.00 2281.0 38.2 3.0 15.0 21.6 41.8 116.5
   -1 1 66979.00
                   90.00 10230.0 89.0 0.0 0.0 23.1 112.1 117.8 B727 SAM
15
         5893.11
                   0.00 4330.0 39.2 3.0 15.0 23.1 44.3 117.8
   -8 1 68979.00
                   90.00 31600.0 80.7 0.0 0.0 21.4 102.1 117.9
          5576 . 08
      1 63279.00
                    0.00 12100.0 32.0 3.0 15.0 21.4 35.4 117.9
18 -18
19 10 6.
         7166.10 90.00 11200.0 80.7 0.0 0.0 17.2 97.9 118.0
                   0.00 4330.0 53.3 3.0 15.0 17.2 52.5 118.0
20 -10 1 68979.00
21 19 6 9201.89
                    90.00 11000.0 65.7 0.0 0.0 7.5 73.2 118.0
22 -19 1 70029.00
                   0.00 3660.0 24.4 3.0 15.0 7.5 13.9 118.0
23 12 5 9877.55
                   90.00 11300.0 70.5 0.0 0.0 10.5 81.0 118.0
                    0.00 5370.0 40.8 3.0 15.0 10.5 33.2 118.0
24 -12 1 68859.00
                              (c) Page 3.
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Figure A-54. - Concluded.

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j	C	XG	2			E	L	A	T	E	ET	
1	RT	IM	 	 D		BP	D	Ť	I	P	PO	
	1 Y	ME				AN	I	I	O	NN	NT	
	FP	UN				SD	N	Ü	N.	ED	DA	
	TE	MŤ	 1	В	PFN	EB		N	S	TB	BL	

1 1 1 50562.19 0.00 3355.0 54.5 3.0 10.0 21.6 63.1 63.1

2 -1 3 2693.32 90.00 2305.0 85.8 0.0 0.0 21.6 107.3 107.3

3 3 1 50562.19 0.00 14500.0 59.3 3.0 10.0 17.4 63.8 107.3

4 -3 2 2693.32 90.00 5100.0 94.5 0.0 0.0 17.4 111.9 113.2 B707

5 7 1 50562.19 0.00 12290.0 67.1 3.0 10.0 23.1 77.2 113.2

6 -7 2 2693.32 90.00 4330.0 88.4 0.0 0.0 23.1 111.5 115.4

7 17 1 50562.19 0.00 12460.0 60.1 3.0 10.0 15.2 62.3 115.4

8 -17 2 -2693.32 90.00 3660.0 82.3 0.0 0.0 15.2 97.5 115.5

9 14 1 50562.19 0.00 15200.0 62.1 3.0 10.0 17.4 66.5 115.5

10 -14 2 2693.32 90.00 5208.0 94.8 0.0 0.0 17.4 112.2 117.2 DC8

11 2 1 50562.19 0.00 35300.0 64.1 3.0 10.0 25.9 77.0 117.2

12 -2 2 2653.32 90.00 12100.0 80.8 0.0 0.0 25.9 106.8 117.5

13 11 1 50562.19 0.00 12200.0 66.7 3.0 10.0 20.7 74.5 117.5

14 -11 2 2693.32 90.00 5411.0 85.4 0.0 0.0 20.7 106.1 117.8

(a) Page 1.

Figure A-55. - 23-Airport, refan new JT8D's, 1987 - cutback takeoff, standard approach.

15 18 1	50562.19	0.00 43250.0	71.2 3.0 10.0	21.4 79.6 117.3
16 -18 2	2693.32	90.00 12100.0	79.0 0.0 0.0	21.4 100.5 117.9
17 10 1	50562-19	0.00 12900.0	57.6 3.0 10.0	17.2 61.8 117.9
18 -10 2	2693.32	90.00 4330.0	83.8 0.0 0.0	17.2 101.0 118.0
19 19 1.	50562.19	0.00 13160.0	37.4 3.0 10.0	7.5 31.8 118.0
20 -19 2	2653.32	90.00 3660.0	75.2 0.0 0.0	7.5 82.6 118.0
21 12 1	50562.19	0.00 12750.0	57.5 3.0 10.0	10.5 54.9 118.0
22 -12 2	2693.32	90.00 5370.0	77.6 0.0 0.0	10.5 88.0 118.0

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HE	rp	UN					SD	N	o iĝ	N	Eυ	DA	
TQ	ΤŒ	MT	r General	H	В	PFN	EB	G	N	S	TB	BL	
		D	IAG	NCSTIC	FOR 23	AIRPORT	AVG R	F N/ NE	W 8D	1987	BASE	MAXGW	FAR 3DEG
1	1	5	4	984.69	90.00	2800.0	82.6	0.0	0.0	21.6	104.1	104.1	
2	-1	1	97	543.81	0.00	2281.0	32.0	3.0	15.0	21.6	35.6	104.1	
3	3	5	4.	216.45	90.00	12080.0	94.8	0.0	0.0	17.4	112.2	112.9	B207
4	_ 2		98	372 - QT	0 - 00	5100.0	31.6	3.0	15.0	17.4	30.4	1120	

(b) Page 2. Figure A-55.- Continued.

5	7	5	5164.83	90.00	8060.0	87.7	0.0	0.0	23.1	110.8 115.0	en en en en en en en en en en en en en e
6	-7	_1_	99543.81	0.00	4330.0	33.7	3.0	15.0	23.1	38.8 115.0	none e
7	17	5	8414-67	90.00	8330.0	75.6	0.0	0.0	15.2	90.7 115.0	
8	-17_	_1	100593.81	0.00	3660.0	24.5	3.0	15.0	15.2	21.7 115.0	
9	14	4	4200.71	90.00	11530.0	96.4	0.0	0.0	17.4	113.8 117.4	Dc8
10	-14	1	98373. <u>81</u>	0.00	5208.0	1.1	3.0	<u>15.0</u>	17.4	0.4 117.4	general and the second and the second
11	2	5	4839.40	90.00	25800.0	80.3	0.0	0.0	25.9	106.2 117.8	
12	-2	, 1	98843.81	0.00	12100.0	28.1	3.0	15.0	25.9	36.0 117.8	
13	11	5	9599.13	90.00	9600.0	76.2	0.0	0.0	20.7	96.9 117.8	THE REPORT OF THE PARTY.
14	-11	1	99423.81	0.00	5411.0	2.7.9	3.0	15.0	20.7	30.6 117.8	
15	. 18	. 6	8117.72	90.00	31600.0	76.3	0.0	0.0	21.4	97.8 117.8	
16	-18	1	98843.81	0.00	12100.0	26.3	3.0	15.0	21.4	29.8 <u>117</u> .8	
1,7	10	_5_	5489.97	90.00	8230.0	82.9	0.0	0.0	17.2	100.1 117.9	
18	-10	1	99543.81	0.00	4330.0	49.3	3.0	15.0	17.2	48.5 117.9	
19	19	5	8634.37	90.00	8390.0	67.1	0.0	0.0	7.5	74.5 117.9	
20	-19	1	100593.81	0.00	3660.0	18.4	3 <u>•0</u>	15.0	7 • 5	7. 9 117.9	
21	.12_	<u>5</u>	9049.35	90.00	9600.0	68.3	0.0	0.0	10.5	78.8 117.9	**************************************
22	-12	1	99423.81	0.00	5370.0	36.5	3.0	15.0	10.5	28.9 117.9	

(c) Page 3.
Figure A-55.- Concluded.

ANA	LYS	IS F	FOR ORSERVE	R AT (-25749.	00.	*	Ö•00)			
GB HF	R C RT AY	ME UN		В	PFN	BP AN SD EB	E L D I	N U A T I	O P E R A T I O N		S U B ET PO NT DA BL	
			DIAGNOSTIC.	FOR 23	AIRPORT	AVG P	FN/NE	W 80	BASE	1987	MAXGW	FAR 6-3DEG
1	7	1	25849.00	C.00	12290.0	77.0	3.0	10.0	23.1	8 <u>7. 1</u>	87.1	
2.	-7	.3	2107.61	90.00	1800.0	89.3	0.0	0.0	23.1	112.4	112.4	B727
3	17	1	25849.00	C. 00	12460.0	70.4	3.0	10.0	15.2	72.6	112.4	
4	-17	3	1872.05	90.00	2100.0	84.6	0.0	0.0	15.2	99.8	112.6	
			25849.00									
6	- 2	.3	2107.61	90.00	8400.0	80.0	0.0	0.0	25.9	105.9	113.5	··
7	11	1	25849.00	C. 00	12200.0	74.7	3.0	10.0	20.7	82.5	113.5	
8	-11	3	2107.61	90.00	2800.0	83.5	0.0	0.0	20.7	104.2	114.0	
9	18	1	25849.00	0.00	43250.0	77.8	3.0	10.0	21.4	86. 2	114.0	
10	- 18	3	21.07.61	90.00	8400.0	78.2	0.0	0.0	21.4	99.6	114.1	
11	1	. 1	25849.00	0.00	3355.0	66•6	3.0	10.0	21.6	75.1	114.1	
12	-1	3	1770.16	90.00	1615.0	84.0	0.0	0.0	21.6	105.6	114.7	
13	14	1	25849.00	0.00	15200.0	72.9	3.0	10.0	17.4	77.2	114.7	
14	-14	3	1989.88	90.00	2600.0	93.7	0.0	0.0	17.4	111.1	116.3	
					(a) Page	1.					

Figure A-56.- 23-Airport, refan new JT8D's, 1987 - cutback takeoff, two-segment approach.

```
15 3 1 25849.00 0.00 14500.0 71.0 3.0 10.0 17.4 75.5 116.3

16 -5 3 1989.88 90.00 2500.0 95.6 0.0 0.0 17.4 113.0 117.9 8707

17 10 1 25849.00 0.00 12900.0 67.8 3.0 10.0 17.2 71.9 117.9

18 -10 3 2107.61 90.00 1800.0 82.4 0.0 0.0 17.2 99.6 118.0

19 19 1 25849.00 0.00 13160.0 50.6 3.0 10.0 7.5 45.1 118.0

20 -19 3 1872.05 90.00 2100.0 77.6 0.0 0.0 7.5 85.1 118.0

21 12 1 25849.00 0.00 12750.0 65.3 3.0 10.0 10.5 62.9 118.0
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ANA	ALYS	IS F	FOR OBSERVE	ER AT (105106	.00,		0.00	7			
		···	والمعادية المناسبة والمناسبة			-	Α .		-			
FN LU IM GB HE TR	C RT AY FP	MS AE XG IM ME UN MT	H		PFN	E BP AN SD EB	S H I E L D I N G	T E N U A T I O	O P E R A T I O N S	E P NN ED TB	S U B ET PO NT DA BL	
			DIAGNOSTIC	FDR 23	AIRPORT	AVG R	FN/NE	W_8D	BASE	1987	MAXGW	FAR 6-3DEG
1	i V	5	. 5154.13	90.00	8060•0	87.8	0.0	0.0	23.1	110.9	110.9	
2_	7	1	99306.00	0.00	4330.0	33.7	3.0	15.0	23.1	38.8	110.9	
3	17	_5	8397.33	90.00	8330.0	75•6	0.0	0.0	15.2	90.8	110.9	
4	-17	1_	100356.00	0.00	3660.0	24.5	3.0	15.0	15.2	21.7	110.9	

(b) Page 2. Figure A-56.- Continued.

```
5 2 5 4827.74 90.00 25800.0 80.4 0.0 0.0 25.9 106.3 112.2
6 -2 1 98606.00 0.00 12100.0 28.2 3.0 15.0 25.9 36.1 112.2
7 11 5 9577.57 90.00 9600.0 76.2 0.0 0.0 20.7 96.9 112.3
8 -11 1 99186.00 0.00 5411.0 27.9 3.0 15.0 20.7 30.6 112.3
 9 18 6 8097.95 90.00 31600.0 76.4 0.0 0.0 21.4 97.8 112.5
11 1 5 4971.13 90.00 2800.0 82.6 0.0 0.0 21.6 104.2 113.1
12 -1 1 97306.00 0.00 2281.0 32.1 3.0 15.0 21.6 35.7 113.1
13 14 4 4191.17 90.00 11530.0 96.5 0.0 0.0 17.4 113.8 116.5 DC8
14 -14 1 98136.00 C.00 5208.0 1.1 3.0 15.0 17.4 0.5 116.5
15 3 5 4206.94 SC.00 12080.0 94.8 0.0 0.0 17.4 112.3 117.9 B707
16 -3 1 98136.00 0.00 5100.0 31.0 3.0 15.0 17.4 30.5 117.9
17 10 5 5478.81 90.00 8230.0 82.9 0.0 0.0 17.2 100.1 117.9
18 -10 1 99306.00 0.00 4330.0 49.4 3.0 15.0 17.2 48.5 117.9
19 19 5 8616.83 90.00 8390.0 67.1 0.0 0.0 7.5 74.6 117.9
20 -19 1 100356.00 0.00 3660.0 18.5 3.0 15.0 7.5 7.9 117.9
21 12 5 9030.27 90.00 9600.0 68.4 0.0 0.0 10.5 78.8 117.9
22 -12 1 99186.00 0.00 5370.0 36.5 3.0 15.0 10.5 29.0 117.9
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(c) Page 3. Figure A-56.- Concluded.

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GB	ΔY	ME						AN	1	I	0	NN	NT	
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TR	TE	MT	/ .	Н		В	PFN	EB	G	N	S	TB	BL	
			PIAGN	OSTI	C FOR	23	AIRPORT	AVG P	FN/NE	W 8D	1987	SAM3D	MAXGW	FAR 6-3DEG
1	7	1	218	19.0	0	C. 00	12290.0	79.5	3.0	10.0	23.1	89.6	89.6	
												· ·		

2 -7 3 1686.36 90.00 1800.0 92.0 0.0 0.0 23.1 115.1 115.1 B727 0.00 12460.0 73.0 3.0 10.0 15.2 75.1 115.1 3 17 1 21819.00 90.00 2100.0 87.2 0.0 0.0 15.2 102.4 115.3 4 -17 3 1520.81 0.00 35300.0 73.6 3.0 10.0 25.9 86.5 115.3 21819.00 6 -2 1686.36 90.00 8400.0 82.9 0.0 0.0 25.9 108.8 116.2 DC/D 7 11 1 21819.00 0.00 12200.0 76.8 3.0 10.0 20.7 84.5 116.2 90.00 2800.0 86.4 0.0 0.0 20.7 107.1 116.7 8 -11 3 1686.36 9 18 1 21819.00 0.00 43250.0 79.5 3.0 10.0 21.4 87.9 116.7 90.00 8400.0 81.1 0.0 0.0 21.4 102.6 116.9 10 -18 3 1686.36 0.00 3355.0 69.6 3.0 10.0 21.6 78.2 116.9 1 1 21819.00 12 -1 3 90.00 1615.0 86.8 0.0 0.0 21.6 108.4 117.4 1383.90

(a) Page 1.

Figure A-57. - 23-Airport, refan new JT8D's, 1987 - cutback takeoff, two-segment approach, SAM JT3D.

90.00 2600.0 89.9 0.0 0.0 17.4 107.3 117.8

14 -15 3 1603.62

τÞ	3	, 2,	21819.00	C.00	14500.C	74 • C	3.0	10.0	3.6	61.8	117.8
lο	-3	3	1603.62	90.00	2500.0	98.3	0.0	0.0	0.8	99.1	117.9
17	4	1	213:9.00	C.00	14500.0	72.6	3.0	10.0	17.3	76.9	117.9
<u>.</u> P	-4	3	1603.62	90.00	2500.0	83.3	0.0	0.0	17.3	100.6	118.0
19	10	1	21819.00	c. on	12900.0	70.3	3.0	10.0	17.2	74.5	118.0
20	-10	3	1636.36	90.00	1800.0	84.7	0.0	0.0	17.2	101.9	118.1
21	19	1	218,9.00	C.00	13160.0	53.9	3.0	10.0	7.5	48.4	118.1
٤٤	-19	3	15_0.81	90.00	2100.0	80.3	0.0	0.0	7.5	87.8	118.1
د 2	12	1	21819.00	0.00	12750.0	67.3	3.0	10.0	.0.5	64.7	118.1
24	-12	3	1686.36	90.00	2800.0	79.1	0.0	0. 0	10.5	89.5	118.1

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FM F AF STATE STATE A
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DIAGNESTIC FOR 23 AIRPORT AVG RENINEW 80 1987 SAMED MAXGW FAR 6-3DEG

1 7 5 4025.16 90.00 8060.0 90.8 0.0 0.0 23.1 13.9 113.9 B727

2 -7 1 7+448.00 0.00 4330.0 38.5 3.0 15.0 23.1 43.6 113.9

3 17 5 6563.80 90.00 8330.0 79.0 0.0 0.0 15.2 94.2 114.0

4 -17 1 75498.00 0.00 3660.0 29.3 3.0 15.0 15.2 26.5 114.0

(b) Page 2.

Figure A-57. - Continued.



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2 5 3609.10 90.00 25800.0 84.0 0.0 0.0 25.9 109.9 115.4 DC/D
6 -2 1 73748.00 C.00 12100.0 32.6 3.0 15.0 25.9 40.5 115.4
7 11 5 7324.64 90.00 9600.0 79.9 0.0 0.0 20.7 100.6 115.5
8 - 1 1 74328.00 0.00 5411.0 32.8 3.0 15.0 20.7 35.5 115.5
          6030.86
                 90.00 31600.0 79.8 0.0 0.0 21.4 10..2 115.7
10 - 18 1 73748.00
                   C.00 12100.0 30.8 3.0 15.0 21.4 34.2 115.7
11 1 5 3553.19
                   90.00 2800.0 86.7 0.0 0.0 21.6 108.3 116.4
12 -1 1 72448.00
                   0.00 2281.0 36.9 3.0 15.0 21.6 40.5 116.4
          3143.58
                   90.00 11530.0 91.7 0.0 0.0 17.4 109.0 117.1
                  0.00 5208.0 49.1 3.0 15.0 17.4 48.4 117.1
14 -15 1 73278.00
  3 5 3213.69 90.00 12080.0 98.4 0.0 0.0 0.8 99.2 117.2
16 -3 1 73278.00 0.00 5100.0 36.5 3.0 15.0 0.8 19.3 117.2
17 4 5 3213.69
                   90.00 12080.0 91.6 0.0 0.0 17.3 108.9 117.8
                  0.00 5100.0 33.6 3.0 15.0 17.3 33.0 117.8
18 -4 1 73278.00
19 10 5 4312.18 90.00 8230.0 85.4 0.0 0.0 17.2 102.6 117.9
20 -10 1 7-448.00
                   0.00 4330.0 52.5 3.0 15.0 17.2 51.6 117.9
                   90.00 8390.0 70.6 0.0 0.0 7.5 78.0 117.9
21 19 5 6793.30
22 -19 1 75498.00
                    0.00 3660.0 23.2 3.0 15.0 7.5 12.7 117.9
                   90.00 9600.0 71.3 0.0 0.0 10.5 81.8 117.9
23 12 5 7036.70
24 -12 1 74328.00 0.00 5370.0 39.9 3.0 15.0 10.5 32.3 117.9
                            (c) Page 3.
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Figure A-57. - Concluded.

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TR	TE	MT	Н	В	PEN	E	3 G	N,	S	T!	3	BL	

DIAGNOSTIC FOR 23 AIRPORT AVG REN/NEW 8D 1987 SAM 3DE 8D MAXGW FAR 6-3DEG

1	20	1	19054.00	0.00 12460.0	76.3 3.0 10.0 15.2 78.5 78.5	
2	-20	3	1192.67	9 C. 00 2100.0	83.7 0.0 0.0 15.2 98.9 99.0	
5	2	1	18054.00	0.00 35300.0	75.7 3.0 10.0 25.9 88.6 99.3	
4	-2	3	1292.81	90.00 8400.0	86.4 0.0 0.0 25.9 112.3 112.5 D	CIO
5	6	1	18054.00	0.00 12200.0	74.8 3.0 10.0 20.7 82.5 112.5	
É	-6	3	1292.91	90.00 2800.0	85.5 0.0 0.0 20.7 106.2 113.4	
7	8	1	18054.00	0.00 12290.0	81.8 3.0 10.0 23.1 91.9 113.5	
R	- 6	3	1292.81	90.00 1800.0	83.7 0.0 0.0 23.1 106.7 114.3	
Ģ	18	1,	18054.00	0.00 43250.0	81.4 3.0 10.0 21.4 89.8 114.3	
10	-18	3	1292.81	90.00 8400.0	84.6 0.0 0.0 21.4 106.0 114.9	
11	1	i	18054.00	0.00 3355.0	73.0 3.0 10.0 21.6 81.6 114.9	
12	-1	3.	1023.04	90.00 1615.0	90.1 0.0 0.0 21.6 111.7 116.6 B	747
13	15	1	18054.00	0.00 15200.0	80.0 3.0 10.0 17.4 84.4 116.6	
14	- 15	3	1242.76	90.00 2600.0	92.8 0.0 0.0 17.4 110.2 117.5	

(a) Page 1.

Figure A-58. - 23-Airport, refan new JT8D's, 1987 - cutback takeoff, two-segment approach, SAM JT3D, SAM JT8D.

```
0.00 14500.0 77.3 3.0 10.0 0.8 65.1 117.5
15
    3 1 18054.00
                   90.00 2500.0 101.4 0.0 0.0 0.8 102.2 117.6
   -3 3 1242.76
17
    4 1 18054.00
                   0.00 14500.0 75.5 3.0 10.0 17.3 79.9 117.6
                   90.00 2500.0 85.9 0.0 0.0 17.3 103.2 117.8
          1242.76
19 40 1 18054.00
                    0.00 12900.0 73.2 3.0 10.0 17.2 77.4 117.8
20 -10 3
          1292.81
                   90.00 1800.0 87.5 0.0 0.0 17.2 104.6 118.0
21 19 1 18054.00
                    0.00 13160.0 57.7 3.0 10.0 7.5 52.1 118.0
22 -19 3
          1192.67
                   90.00 2100.0 83.6 0.0 0.0
                                               7.5 91.0 118.0
23 12 1 18054.00
                 0.00 12750.0 69.5 3.0 10.0 10.5 66.9 118.0
44 -12 3
                   90.00 2800.0 82.2 0.0 0.0 10.5 92.7 118.0
         1292.81
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ANALYSIS FOR O	COERVER AL	75212.00.	0.001

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GB	KT 4Y	ME						BP AN	D I	T	U	P NN	PO NT	
HE	F P	MT		H		В	PFN	SD EB	N G	O N	N S	ED TB	DA BL	

DIAGNOSTIC FOR 23 AIRPORT AVG REN/NEW 8D 1987 SAM 3DE8D MAXGN FAR 6-3DEG

1 20 5 6192.35 90.00 8330.0 80.0 0.0 0.0 15.2 95.2 95.2

2 -20 1 70462.00 C.00 3660.0 31.7 3.0 15.0 15.2 28.9 95.2

3 2 5 3362.21 90.00 25800.0 84.8 0.0 0.0 25.9 110.7 110.8 DC/O

4 -2 1 68712.00 0.00 12190.0 33.7 3.0 15.0 25.9 41.6 110.8 (b) Page 2.

Figure A-58. - Continued.

```
6 5 6868.21 90.00 9600.0 79.1 0.0 0.0 20.7 99.9 111.2
                  C.00 5411.0 44.4 3.0 15.0 20.7 47.1 111.2
6 -6 1 69292.00
                  90.00 8060.0 89.5 0.C 0.0 23.1 112.6 115.0 B727 SAM
  8 5 5808.47
                  0.00 4330.0 39.1 3.0 15.0 23.1 44.2 115.0
 8 -8 1 69412.00
        5612.09
                  90.00 31600.0 80.6 0.0 9.0 21.4 102.0 115.2
9 18 6
10 -18 1 68712.00
                  0.00 12100.0 31.9 3.0 15.0 21.4 35.3 115.2
        3265.93 90.00 2800.0 87.6 0.0 0.0 21.6 109.2 116.1
11
  1 5
                  0.00 2281.0 38.1 3.0 15.0 21.6 41.7 116.1
12 -1 1 67412.00
13 15 4 2991.48 90.00 11530.0 92.3 0.0 0.0 17.4 109.7 117.0
14 -15 1 69242.00 0.00 5208.0 50.0 3.0 15.0 17.4 49.3 117.0
    3 5 3012.46 90.00 12080.0 99.2 0.0 0.0 0.8 100.0 117.1
15
16 -3 1 68242.00 0.00 5100.0 37.8 3.0 15.0 0.8 20.6 117.1
   4 5 3012.46 90.00 12080.0 92.2 0.0 0.0 17.3 109.6 117.8
                  0.00 5100.0 34.9 3.0 15.0 17.3 34.2 117.8
18 -4 1 68242.00
19 10 5 4075.83
                  90.00 8230.0 86.0 0.0 0.0 17.2 103.2 118.0
                  0.00 4330.0 53.2 3.0 15.0 17.2 52.4 118.0
20 -10 1 69412.00
21 19 5 6411.85
                   90.00 8390.0 71.3 0.0 0.0 7.5 78.8 118.0
22 -19 1 70462.00
                  0.00 3660.0 24.3 3.0 15.0 7.5 13.8 118.0
                  90.00 9600.0 72.1 0.0 0.0 10.5 82.5 118.0
23 12 5 6632.82
24 -12 1 69292.00 0.00 5370.0 40.7 3.0 15.9 10.5 33.1 118.0
                             (c) Page 3.
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Figure A-58. - Concluded.

ANA	LYS	15 F	OR CBSERVE	R AT (-25967.0	00 •		0.00	•			
ENU IM GB HE TR	FP	XG IM ME UN		B	PFN	E BP AN SD EB	S H I E L D I N G	A T T E N U A T I Ü N	O P E R A T I O N S	E P NN ED TB	SU B ET PO NT DA BL	
		נ	TAGNESTIC	FOR 23	ARPT AVG	BASE	198	B1 MAX	GW FAR	3 C A1	A 8.D	6-3DEG
1	3	1	26067.00	0.00	14500.0	70.9	3.0	10.0	18.0	75.9	75.9	
2	-3	3	2010.77	90.00	2500.0	95.4	0.0	0.0	18.0	113.4	113.4	B707
. 3	7	. 1	26067.00	0.00	12300.0	76.9	3.0	10.0	23.9	87.8	113.4	
4	-7	3	2130.40	90.00	1800.0	89.1	0.0	C.O	23.9	113.0	116.2	B727
5	17	1	26067.00	0.00	12600.0	70.6	3.0	10.0	16.0	73.6	116.2	
6	-17	3	1891.05	90.00	2100.0	64.4	0.0	0.0	16.0	100.5	116.3	
7	2	1	26067.00	J.00	35300.0	71.6	3.0	10.0	24.7	83.2	116.3	
8	-2	3	2130.40	90.00	8400.0	79.9	0.0	0.0	24.7	104.5	116.6	
9	11	. 1	26067.00	0.00	12200.0	74.6	3.0	10.0	21.2	82.9	116.6	
10	-11	3	2130.40	90.00	2800.0	83.4	0.0	0.0	21.2	104-6	116.9	
11	1	1	26067.00	0.00	3355.0	66.4	3.0	10.0	20.2	73.6	116.9	
12	-1	3	1791.05	90.00		83.9 Page		C.0	20-2	104.1	117.1	
	34.75										100	

Figure A-59.- 23-Airport, 1981 - cutback JT3D takeoff, standard JT8D takeoff, two-segment approach.

13	8	1	26067.00	J.00	12300.0	76.2 3.0	10.0	14.1	77.3	117.1
14	-8	3	2130.40	90.00	1800.0	79.0 0.0	0.0	14,1	93.0	117.1
15	1 E	1	26067.00	0. 00	43250.0	77.7 3.0	10.0	19.2	84.0	117.1
16	-18	3	2130.40	90.00	8400.0	78.1 0.0	0.0	19.2	97.3	117.2
17	14	1	26067.00	0.00	15200.0	72.7 3.0	16.0	16.9	76.7	117.2
18	-14	3	2010.77	90.00	2600.0	93.6 0.0	0.0	16,9	110.5	118.0

1	N N	LYS	IS	FOR	Ges	ERVER	AT (100	759.0	0,		0.	00)		
												Δ			
												T	O		•
							in the				S	Ţ	P		
		Ā	M	S							ī	I. N	R		<u>3</u> .
F	-N	R	Δ	<u>.</u>							E	U	A		В
_	U	٠,	X(estana Stana		E	Ļ	A	Ţ	5	ET
	M B	R"						an artis		BP	D I	Ī		NN I	FU
	iF	F								SD	N	Ö	Ň	EC	
1	R	: T.	М.	T	H		В	PF	N	EB	G	N	S	76	BL BL

1 3 5 4033.25 90.00 12080.0 95.5 0.0 0.0 18.0 113.4 113.4 B707
2 -3 1 93789.00 0.00 5100.0 31.9 3.0 15.0 18.0 31.8 113.4
3 7 6 9135.77 90.00 10230.0 84.3 0.0 0.0 23.9 108.2 114.6
4 -7 1 94959.00 0.00 4330.0 34.5 3.0 15.0 23.9 40.4 114.6

DIAGNESTIC FOR 23 ARPT AVG BASE 1981 MAXGW FAR 3D ATA 8D 6-3DEG

(b) Page 2. Figure A-59.- Continued.

5	17	6 :	9777-14	90.00	10300.0	76-1	0.0	0.0	16.0	92.1	114.6
6	-17	1	96009.00	0.00	3660.0	25.3	3.0	15.0	16.0	23.3	114-6
7	2	5	4614.63	90.00	25800.0	80.9	0.0	0.0	24.7	105.6	115.1
ક	-2	ļ	94259.00	0.00	12100.0	28.9	3.0	15.0	24.7	35.5	115.1
9	11	6	8311.89	90.00	10600.0	79.5	0.0	0.0	21.2	100.7	115.3
10	-11	1	94839.00	0.00	5411.0	28.7	3.0	15.0	21.2	31.9	115.3
11	1	5	4723.17	90.00	2800.0	83.3	0.0	0.0	20.2	103.5	115.5
12	-1	1	92959.00	0.00	2281.0	32.8	3.0	15.0	20.2	35.0	115.5
13	8	6	9135.77	90.00	10230.0	83.2	0.0	0.0	14.1	97.3	115.6
14	-8	1	94959.00		4330.0	34.1	3.0	15.0	14-1	30-2	115.6
15	18	6	7736.47	90.00	31600.0	76.9	0.0	0.0	19.2	96.1	115.7
16	-18	1.	94259.00	0.00	12100.0	27.1	3.0	15.0	19.2	28.3	115.7
17	14	4	4016.72	90.00	11530.0	97.2	0.0	0.0	16.9	114-1	117.9 DC8
18	-14	1.	93789.00	0.00	5208.0	2.4	3.0	15.0	16.9	1.3	117.9

(c) Page 3.
Figure A-59.- Concluded.

ANA	LYS	IS F	DP CBSERVE	R AT (-21804	.00,		0.00	•			
							S	A T	0 P			
LU IM GR	R C RT AY	MS AE XG IM ME				E BP AN	H I E L D	U A T	E R A T I	E P NN	PO NT	
HF TR	FP	MT	- , H		PFN	SD EB	N G		N S	ED TB	D <u>A</u> B L	
		D	IAGNESTIC	FOR 23	APT AVG	SAM3D	1981	L MAX	GW FA	AR 8D A	ATA 3D	6-3DEG
1	3	1.	21904.00	0,00	15200.0	75.4	3.0	10.0	-2.2	60 . <u>2</u>	60 <u>• 2</u>	
2	-3	3	1611.77	90.00	2500.0	98.2	0.0	0.0	-2.2	96.0	96.0	
3	4	7 1	21904.00	0.00	15200.0	74.6	3.0	10.0	17.9	79.5	96.1	,
4	-4	3	1611.77	90.00	2500.0	83.2	0.0	0.0	17.9	101.2	102.3	
5	15	1	21904.00	0.00	15200.0	76.8	3.0	10.0	16.9	80.7	102.4	
6	-15	3	1611.77	90.00	2600.0	89.9	0.0	0.0	16.9	106.8	108.1	
7	2	1	21904.00	0.00	35300.0	73.5	3.0	10.0	24.7	85.2	108.2	
8	-2	3	1695.24	90.00	8400, 0	82•9	0.0	0.0	24.7	107.5	110.9	DC10
9	1	1	21904-00	0.00	3355.0	69.5	3.0	10.0	20.2	76.7	110.9	
10	-1	3	1392.04	90.00	1615.0	86.7	0.0	0.0	20.2	106.9	112.3	
11	18	1	21904.00	0.00	43250.0	79.4	3.0	10.0	19.2	85.7	112.3	
12	-18	3	1695.24	90.00		81.1 a) Page		0.0	19.2	100.3	112.6	

Figure A-60. - 23-Airport, 1981 - cutback JT8D takeoff, standard JT3D takeoff, two-segment approach, SAM JT3D.

```
13 7 1 21904.00 0.00 12290.0 79.4 3.0 10.0 23.9 90.3 112.6

14 -7 3 1695.24 90.00 1800.0 91.9 0.0 0.0 23.9 115.8 117.5 B727

15 17 1 21904.00 0.00 12460.0 72.9 3.0 10.0 16.0 75.9 117.5

16 -17 3 1528.22 90.00 2100.0 87.2 0.0 0.0 16.0 103.2 117.7

17 11 1 21904.00 0.00 12200.0 76.7 3.0 10.0 21.2 84.9 117.7

18 -11 3 1695.24 90.00 2800.0 86.3 0.0 0.0 21.2 107.5 118.1 DC9

19 8 1 21904.00 0.00 12290.0 78.9 3.0 10.0 14.1 79.9 118.1

20 -8 3 1695.24 90.00 1800.0 81.1 0.0 0.0 14.1 95.2 118.1
```

ANA	LYS	IS	FOR CBSERV	ER AT	77994	.00,		0.00))			
	A						S H	A T	0 P E		S	
FN LU TM GB HE TR	C RT AY EP			8	PFN	E BP AN SD EB	I E L O I N G	N U A T I O	R A T I O N S	E P NN ED TB	U B ET PO NT DA BL	
•			DIAGNOSTIC	FOR 23	APT AVG	SAMBD	1981	K AM	GW FAF	8D A	TA 3D	6-3DEG
1	3	6	3523.32	90.00	12300.0	96.1	0.0	0.0	-2.2	93.9	93.9	
2	-3	1	71024.00	0.00	5100.0	37.0	3.0	15.0	-2.2	16.8	93.9	
3	4	6	3523.32	90.00	12300.0	89.9	0.0	0.0	17.9	07.8	108.0	

Figure A-60. - Continued.

(b) Page 2.

```
71024-00 0.00 5100-0 34-2 3-0 15-0 17-9 34-1 108-0
                  90.00 12300.0 91.5 0.0 0.0 16.9 108.4 111.2
          3523.32
                   0.00 5208.0 49.4 3.0 15.0 16.9 48.4 111.2
         71C24.00
                  90.00 25800.0 84.3 0.0 0.0 24.7 109.0 113.3 DC/D
          3498.60
    2
      5
                  0.00 12100.0 33.1 3.0 15.0 24.7 39.7 113.3
         71494.00
    1 5 3424.62 90.00 2800.0 87.1 0.0 0.0 20.2 107.3 114.2
   -1 1
         70194.00
                  0.00 2281.0 37.4 3.0 15.0 20.2 35.6 114.2
          5843.43
                  90.00 31600.0 80.1 0.0 0.0 19.2 99.4 114.4
12 -18 1 71494.00
                  0.00 12100.0 31.3 3.0 15.0 19.2 32.5 114.4
                  90.00 8060.0 91.1 0.0 0.0 23.9 115.0 117.7 B727
          3933.70
13
    7 5
         72194.00
                  0.00 4330.0 39.0 3.0 15.0 23.9 44.9 117.7
      1
          6397.55
                  90.00 8330.0 79.3 0.0 0.0 16.0 95.3 117.7
   17 5
16 -17 1 73244.00 0.00 3660.0 29.9 3.0 15.0 16.0 27.3 117.7
17 11 5
         7120.35
                   90.00 9600.0 80.3 0.0 0.0 21.2 101.5 117.8
18 -11 1 72074.00
                   0.00 5411.0 33.4 3.0 15.0 21.2 36.6 117.8
                   90.00 8060.0 89.3 0.0 0.0 14.1 103.3 118.0
          3933.70
20 -8 1 72154.00
                  0.00 4330.0 38.5 3.0 15.0 14.1 34.6 118.0
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(c) Page 3.

Figure A-60.- Concluded.

ANALYSIS FOR CHSERVER AT (-17107.00,		0.00)						
FN LU IM GB HF TR	A I R C RT AYP TF	UN		8	PFN	E BP AN SD E8	S H I E L D I N	A T T T T T T T T T T T T T T T T T T T	O P E R A T I O N	E P NN ED T8	S U B ET PU NT DA BL		
		ָּחַ	IAGNOSTIC	FOR 23	APPT AVG	SAMSE	18 <u>8</u> D	1981	MAXGW	FAR	8D ATA	30	<u>6-3D</u> EG
1	3	1.	17206.99	0.00	15200.0	79.5	3.0	10.0	=2.2	64.3	64.3		
2	- 3	<u>3</u> .	1161-58	90.00	2500.0	102.3	0.0	0.0	-2.2	100.1	100.1		
3	4	1	17206.99	0.00	15200.0	78.3	3.0	10.0	<u>1</u> 7 <u>.9</u>	83.2	100.2		
4	-4	3	1161.58	90 <u>*</u> 00	2500.0	86.6	0.0	0.0	17.9	104.5	105.9		•
5	15	1	17206.99	0.00	15200.0	80.8	3.0	10.0	<u>16.9</u>	84.7	105.9	* ************************************	in. <u>Au</u> lianny
6	-15	3	1161.58	90.00	2600.0	93.6	0.0	0.0	16.9	110.5	111.8	DC8	SAM
7	2	1_	17206.99	0.00	35300.0	76.2	3.0	10.0	24.7	87.9	111.6	: ,	···········
8	-2	3	1204.27	90.00	8400.0	87.3	0.0	0.0	24.7	112.0	114.9	DC.	10
9	. 1	1	17206.99	0.00	3355.0	73.9	3.0	10.0	20.2	81.0	114.9		
10	-1	2	947.65	90.00	1703.7	91.8	0.0	0.0	20.2	112.0	116.7	B74	12
11	18	1	17206.99	0.00	43250.0	81.8	3.0	10.0	19.2	88.1	116.7		
12	-18	3.	1204.27	90.00	8400.0	85.5	0.0	0.0	19.2	104.7	117.0	→ •, §	
13	20	1.	17206.99	0.00	12460.0	77.0	3.0	10.0	16.0	80.1	117.0	,	
14	-20	3	1118.85	90.00	2100.0	84.5	0.0	0.0	16.0	100.5	117.1		

(a) Page 1.

Figure A-61.- 23-Airport, 1981 - cutback JT8D takeoff, standard JT3D takeoff, two-segment approach, SAM JT3D, SAM JT8D.

```
0.00 12200.0 75.5 3.0 10.0 21.2 83.7 117.1
    6 1 17206.99
15
                   90.00 2800.0 86.1 0.0 0.0 21.2 107.3 117.5
         1204.27
   -6 3
    8 1 17206.99
                   0.00 12290.0 82.6 3.0 10.0 24.3 93.9 117.5
          1204.27
18 -8 3
                   90.00 1800.0 84.3 0.0 0.0 24.3 108.6 118.0
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                          PEN
                                  EB
                                                          BL
        DIAGNOSTIC FOR 23 ARPT AVG SAM3D&8D
                                         1981 MAXGW FAR 8D ATA 3D 6-3DEG
                   90.00 12600.0 97.7 0.0 0.0 -2.2 95.4 95.4
    3 5
          3376.86
                   0.00 5100.0 37.9 3.0 15.0 -2.2 17.7 95.4
 2 -3 1 67791.00
                   90.00 12600.0 91.7 0.0 0.0 17.9 109.6 109.8
      5
          3376.86
                    0.00 5100.0 35.0 3.0 15.0 17.9 34.9 109.8
      1 67791.00
                   90.00 12600.0 93.5 0.0 0.0 16.9 110.5 113.1 DC8 SAM
 5 15
      5
          3376.86
                    0.00 5208.0 50.0 3.0 15.0 16.9 48.9 113.1
       1 67791.00
                   90.00 25800.0 84.9 0.0 0.0 24.7 109.6 114.7
    2 5 3340.10
      1 68261.00
                   0.00 12100.0 33.8 3.0 15.0 24.7 40.4 114.7
                   90.00 2800.0 87.7 0.0 0.0 20.2 107.9 115.5
          3240.21
    1 5
                               (b) Page 2.
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Figure A-61. - Continued.

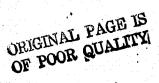
10	- 1	<u>1</u>	66961.00	0.00	2281.0	38.2 3.	0 15.0	20.2	40.4 115.5	
11	18	6	5574.58	90-00	31600.0	80.7 0.	0 0.0	19.2	99.9 115.6	· · · · · · · · · · · · · · · · · · ·
12	-18	1	68261.00	0.00	12100.0	32.0 3.	0 15.0	19.2	33.2 115.6	
13	20	. 5	6159.09	90.00	8330.0	80.00.	0.0	16.0	96.0 115.7	
14	-20	1	70011.00	0 <u>.</u> 00	3660.0	31.8 3.	0 15.0	16.0	29.9 115.7	A
15	6	5	6 8 2 7 • 3 4	90-00	9600.0	79.2 0.	0. 0.0	21.2	100.4 115.8	
16	-6	<u>.</u>	68841.00	0.00	5411.0	44.5 3.	0 15.0	21.2	47.7 115.8	mangan ang Lipangan
17	8	_5	3788.17	90.00	8060.0	89.5 0.	0.0	24.3	113.9 118.0	8727 SAM
18	-8	1	68961.00	0.00	4330.0	39.2 3.	0 15.0	24.3	45.6 118.0	ر بازد در این از در این از در این از در این از در این از در این از در این از در این از در این از در این از در از در این از در این از در این از در این از در این از در این از در این از در این از در این از در این از در این

(c) Page 3. Figure A-61. - Concluded.

Figure A-62. - 23-Airport, 1981 - cutback JT8D takeoff, standard JT3D takeoff, two-segment approach, SAM JT3D, RFN JT8D.

ANALYSIS FOR ORSERVER AT (66285.00, 0.00)													
FN IU IM GB HE TR	C Q T A Y E F	MS AE XG TM ME UN MT			PFN	E BP AN SD EB	S H I E L D I N G	A T T E N U A T I O N	P F R A T I D N S	E P NN ED TB	S U B ET PO NT DA BL		
		D	IAGNOSTIC	FOR 23	APPT AVG	SAM	3D RI	N 8D	1981 N	1AXGW	FAR 90) ATA 30	6-3DEG
1	Э	5	3249.64	90.00	12600.0	98.1	0.0	0.0	-2.2	95.0	95.9		
2	-3	ī	59315.70	c.00	5100.C	40.4	3.C	15.0	-2.2	20.2	95.9		
3	4	5	3249.64	90.00	12600.0	92.0	0.0	0.0	17.9	110.0	110.1		
4	-4	1	59315.00	c•00	5100.0	37.2	3.0	15.0	17.9	37.2	īio.ī		
5	15	5	3249.64	90.00	12600.0	93.9	0.0	0.0	16.9	110.9	113.5		
6	- 15 	ī	59315.00	c.00	5208.0	51.7	3.0	15.0	16.9	50.6	115.5		
7	2	4	3011.89	9C.00	27400.0	87.7	0.0	0.0	24.7	112.3	116.0	DC10	
			59785.00			i i							
9	1	4	3128.11	90.00	2800.0	88.6	0.0	0.0	20.2	108.7	116.7		
			58485.00										**************************************
11	. 9	6	4869.75	90.00	31600.0				19.2	101.4	116.9		
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Figure A-62. - Continued.



	116.9	35.2	19.2	15.0	3.0	34.C	12100.0	c. 00	54785.00	1	- 1 º	12
B727 KFN	117.9	111.1	24.3	0.0	0.0	86.8	8230.0	sc.00	3t-56.86	5	17	13
Ne day.	117.9	61.0	24.3	15.0	3.0	54.7	4330.0	C.00	60485.00	Γ	-ic	14
	117.9	94.7	21.2	0.9	0.0	73.4	9600.0	90,00	5916.88	5	12	15
	117.9	45.5	21.2	15.0	3.0	42.3	5370.0	c.00	60365.00	1	-12	16
	117.9	98.6	16.0	0.0	0.0	72.6	8390.0	°C.00	5753.39	5	19	17
	117.9	24.6	16.0	15.0	3.0	26.6	3660.0	C. 00	61,555.00	1	-19	18

(c) Page 3. Figure A-62. - Concluded.

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         DIAGNOSTIC FOR 23 AIRPORT AVG
                                         BASE 1987 MAXGW FAR 3D ATA 8D 6-3 DEG
                       0.00 15200.0 72.8 3.0 10.0 17.4 77.1 77.1
 1 14 1
           25999.00
                      90.00 2600.0 93.6 0.0 0.0 17.4 111.7 111.0
 2 -14
            2004.26
        1
           25000.00
                       C.00 14500.0 70.9 3.0 10.0 17.4 75.4 111.0
                      90.00 2500.0 95.5 0.0 0.0 17.4 112.9 115.1
            2004.26
    -3
        3
           25999.00
                       0.00 12300.0 76.9 3.0 10.0 23.5 87.4 115.1
                                     89.2 0.0 0.0 23.5 112.7 117.0 B727
            2123.29
                      90.00 1800.0
                       C.00 12600.C 70.6 3.0 10.0 15.9 73.5 117.1
      1
           25999.00
            1885.13
                      90.00 2100.0 84.5 0.0 0.0 15.9 100.4 117.1
 9 -17
           25999.00
                       0.00 35300.0 71.6 3.0 10.0 25.9 84.5 117.1
        3
            2123.29
                      5C.00 8400.0 79.9 0.0 0.0 25.9 105.8 117.5
                       0.00 12200.0 74.7 3.0 10.0 21.1 82.8 117.5
           25099.00
12 -11
        3
            2123.29
                      90.00 2800.0
                                     83.4 0.0 0.0 21.1 104.5 117.7
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                      90.00 1615.0
                                    83.9 0.0 0.0 21.6 105.5 117.9
            1794.53
                                   (a) Page 1.
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Figure A-63.- 23-Airport, 1987 - cutback JT3D takeoff, standard JT8D takeoff, two-segment approach.

```
15 8 1 25999.00 C.00 12300.0 76.3 3.0 10.7 14.9 78.2 117.7

16 -8 3 2123.29 9C.00 1800.0 79.0 0.0 0.7 14.9 93.9 117.9

17 13 1 25999.00 C.00 43250.0 77.7 3.0 10.7 21.4 36.2 117.9

18 -19 3 2123.29 9C.00 8400.0 78.1 0.0 0.0 21.4 95.5 118.0
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AN	ALYF	IS F	OP DOSERV	TR AT (10141P.00.	0.20)		
							ŋ	
	٨					S T H E	P F	s
۴Ņ	ı P	MS				E U	R A	U B
LI		XG			F AP	L A	T E	ET PO
G					AN SD		D. NN N ED	NT DA
TF	7.	MT	. и н	A	PEN SE	G N	S TB	BL

DIAGNOSTIC FOR 23 AIRPORT AVG BASE 1987 MAXGW FAR 3D ATA 3D 6-3 DEG

ì	14	4	4043.17	°C.00 11530.	0 97.1	0.0 0.0	17.4 114.4 114.4	DC8
2	-*4	1	94448.00	C.00 5208.	0 2.2	3.C 15.7	17.4 1.6 114.4	
2	3	5	4059.58	90.00 12080.	0 95.4	0.0 0.7	17.4 112.8 116.7	B707
4	٠ ٦	1	94448.00	C.00 5100.	0 31.8	3.C 15.0	17.4 31.2 116.7	
۶	7	6	9218.02	90.00 10230.	0 84.2	0.0 0.0	23.5 107.7 117.2	
6	-7	1	95618.00	C.00 4330.	0 34.4	3.0 15.0	25.5 39.9 117.2	
7	17	6	9841.44	c0.00 10300.	0 76.0	0.0 0.0	15.9 91.9 117.2	
3	-17	1	76668.00	C. 70 3660.	0 25.2	3.0 15.0	15.9 23.0 117.2	

(b) Page 2.

Figure A-63. - Continued.

7	2	5	4646.94	90.00	25800.0	80.8	0.0	0.0	25.9	106.8	117.6
<u>:</u> 1	-2	ì	94918.00	c.00	12700.0	28.8	3.0	15.0	25.9	36.7	117.6
• 1	: 1	6	8382.72	90.00	10600.0	79.4	0.0	0.0	21.1	100.5	117.7
12	-11	1	95498.00	C.00	5411.0	28.6	3.0	15.0	21.1	31.7	117.7
13	1	5	4769.76	50.00	2800.0	83.2	0.0	0.0	21.6	104-8	117.9
14	-"	1	93618.00	0.00	2281.0	32.7	3.0	15.0	21.6	36.3	117.9
• 5	ŝ	6	9214.0?	90.00	10230.0	83.1	0.0	0.0	14.9	98.0	117.9
16	-8	1	95618.00	0.00	4330.0	34.C	3.0	15.0	14.0	31.0	117.9
17	19	6	7791.27	90.00	31600.0	76.8	0.0	0.7	21.4	98.2	118.0
18	-18	1	94918.00	0.00	12100.0	27 . C	3.1	15.0	21.4	30.4	118.0

(c) Page 3. Figure A-63. - Concluded.

							-		A		** ** * *	u-sire to	
									T	0			
			M'S		* * * * * * * * * * * * * * * * * * *			\$_ H T	E N	P E R		S	and the second
F	N	5						E	ູ່ປຸ	- <u>A</u>			markers and a second of the second
	IJ	<u>ر</u> .	XG	•			F	L	A A				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	i VI GR	PΤ	ME				RP AN	D	i T	I 0	NN NN	PO NT	
	ŧΕ	FP	UN		* ***	om ramos grana	SD	Ñ	ñ	N	ED	DA	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
1	LIS.	ाः	MT	Н	B	PEN	EB	G	N	S	TB	BL	
			ر	TAGNOSTIC	FOR 23	AIRPOPT	AVG	1987	SAM3D	MAXG	FAR	BD ATA	3D 6-3DEG
	1	. 7	1	22100.00	C.00	12290.0	79.3	3.0	10.0	23.5	89.8	89.8	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	2	_7	3	1715.73	90.00	1800.0	91.8	0.0	0.0	23.5	115.3	115.3	B727
							1 171					·	
	3	17	1	22100.00	C. 00	12460.0	72.8	3.0	10.0	15.9	75.6	115.3	All the second
	4	-1.7	3	1545.31	90.00	2100.0	87.0	0.0	ō.ō	15.9	102.9	115.6	
	5	1.	1	22100.00	C.00	12200.0	76.6	3.0	10.0	21.1	84.7	115.6	
	5	-11	3	1715.73	90.00	2800.0	86.2	0.0	0.0	21.1	107.3	116.2	
	7	8	I	22100.00	C.00	12290.0	78.7	3.0	10.0	14.9	80.7	116.2	
	3	·- 3	3	1715.73	90.00	1800.0	81.0	0.0	ñ.o	14.9	95.9	116.2	
	9.	3	1	22100.00		15200.0	75.3	3.0	10.0	0.8	63.1	116.2	
	: n	+3	3	1670.55	90.00	2500.0	98.1	0.0	0.0	0.8	98.9	116.3	
	11	4	1	22100.00	c. 00	15200.0	74.5	3.C	10.0	17.3	78.8	116.3	
	12	-4	3	1630.55	90.00	2500.0	83.1	0.0	0.0	17.3	100.4	116.4	
	13	15	1	22100.00	0.00	15200.0	76.7	3 • C	10.0	17.4	81.0	116.4	
	i 4	-] =	3	1630.55	90.00	2600.0	89.8	0.0	0.0	17.4	107.1	116.9	

Figure A-64. - 23-Airport, 1987 - cutback JT8D takeoff, standard JT3D takeoff, two-segment approach, SAM JT3D.

ANALYSIS FOR COSERVER AT (79302.00.

						2000	1 11	11				
							<u> </u>	A T T	O P			
FΝ	A T R	MS AE					H	E N U	E R		S U B	
LII IM GB	PT AY	XG J M				BP AN	Î D	A	Ī	P NN	ET PO NT	
HE TR	FP	UN	Ħ	8	PEN	SD EB	e G	0 N	N S	ED TB	DA BL	
			DIAGNOSTIC	FOR 23	AIRPORT	AVG	1987	SAMan	MAXG	FAR 8	DATA	3D 6-3DEG
1	. 7	5	3992.58	90.00	8060.0	90.9	0.0	0.0	23.5	114.5	114.5	B727
2	-7	1	73502.00	0.00	4330.0	38.7	3.0	15.0	23.5	44.3	114.5	
3	17	5	6494.03	90.00	8330.0	79.1	0.0	0.0	15.9	95.0	114.5	
4	-17	1	74552.00	0.00	3660.0	29.6	3.0	15.0	15.9	27.4	114.5	
5	11	5	7238.90	90.00	9600.C	80.1	0.0	0.0	21.1	101.2	114.7	
6	-11	ī	73382.00	0.00	5411.0	33.0	3.0	15.0	21.1	36.2	114.7	
					(t) Page	2.					
					Figure A	-64	Cont	inued.				

0.001

90.00 8060.0 89.1 0.0 0.0 14.9 104.1 115.1 8 5 3992.58 0.00 4330.0 38.2 3.0 15.0 14.9 35.2 115.1 -8 1 73502.00 50.00 12300.0 95.8 0.0 0.0 0.8 96.6 115.1 3602.71 0.00 5100.0 36.7 3.0 15.0 0.8 19.5 115.1 -3 1 72332.00 90.00 12300.0 89.7 0.0 0.0 17.3 107.0 115.8 3602.71 C.00 5100.0 33.9 3.0 15.0 17.3 33.2 115.8 12 -4 1 72332.00 90.00 12300.0 91.3 0.0 9.0 17.4 108.6 116.5 3602.71 14 -15 1 72332.00 0.00 5208.0 49.2 3.0 15.0 17.4 48.6 116.5 3562.72 90.00 25800.0 84.1 0.0 0.0 25.9 110.0 117.4 DC/O 0.00 12100.0 32.8 3.0 15.0 25.9 40.7 117.4 -2 1 72802.00 90.00 2800.0 86.9 0.0 0.0 21.6 108.5 117.9 1 5 3499.23 0.00 2281.0 37.1 3.0 15.0 21.6 40.7 117.9 13 -1 1 71502.00 90.00 31600.0 79.9 0.0 0.0 21.4 101.3 118.9 19 18 6 5952.19 C.00 12100.0 31.C 3.0 15.0 21.4 34.4 118.0 20 -18 1 72802.00

(c) Page 3.
Figure A-64.- Concluded.

4:10	^LYS	IS F	OR CHREEKV	FR AT (-17647	•00•		Ö.0	0)						
F' LU I's	BI C R	IM					S H I E L D	ATTENUAT	T I	E		S U B EI PO		, and the second	
GP HC T-	10	ME UN MT	 H	8	PFN	AN SD EB	I N G	I O N	:) N S	NN ED TB		DA BL			
		ם	IAGNOST IC	FOR 23	AIRPORT	AVG	1 <u>9</u> 87	SAM	3D&3D	MA <u>XG</u> W	<u>F</u> AR	<u>8D</u>	AŢA	3 ,D	6-3DEG
1	20	1	17946.99	0.00	12460.0	76.4	3.0	10.0	15.9	79.2	79	.3			
2	-29	3.	1183.35	90.00	2100.0	83.8	0.0	0.0	15.9	99.1	99	2.1.			
3	6	1	17946.99	0.00	12200.0	74.9	3.0	10.0	21.1	83.0	99	9-8			
4	-6	3	1281.63	90.00	2800.0	85.6	0.0	0.0	21.1	106-7	10	7.5			
· 5	ß	1	17946.99	0.00	12290.0	81.9	3.0	10.0	24.1	93.0	10	7,6			
, 6	-a	3	1281.63	90.00	1800.0	83.7	0.0	Q .0	24.1	107-	3 11	0,7,			
, , ,	3	1	17946.99	0.00	15200.0	78.8	3.0	10.0	0.8	66.6	110	0 . 7			
ġ	-3	3.,	1232.51	90.00	2500.0	101.6	0.0	0.0	0.8	102.	3 11	1.3	•		
	4	1	17946.99	0.00	15200.0	77.6	₹.0	10.0	17.3	82.0	11	1.3			
10	-4	3.	1232.51	00.00	2500.0	86 <u>.</u> 9	0.0	0.0	17.3	103.	3 11:	2.0		-	
11	15	1	17946.99	0.00	1,5200.0	80.1	3.0	10.0	17.4	84.5	11	2.0			
12	-15	3.	1232.51	90.00	2600.0	92.9	0.0	0.0	17.4	110-	3 114	••2			
13	Z	1	17946.99	0.00	35300.0	75.8	3.0	10.0	25.9	88.	7 114	4.2			
14	-2	3	1281.63	90 <u>-0</u> 0	8400.0	86.5	0,0	0.0	25.9	112.	9 110	6.4	Do	10	
15	1	1	17946.99	0.00	3355.0	73.1	3.0	10.0	21.6	81.	7 110	6.4			

Figure A-65.- 23-Airport, 1987 - cutback JT8D takeoff, standard JT3D takeoff, two-segment approach, SAM JT3D, SAM JT8D.

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16 -1 3 1012.78 90.00 1615.0 90.2 0.0 0.0 21.6 111.8 117.7 B747

17 18 1 17946.99 0.00 43250.0 81.4 3.0 10.0 21.4 89.8 117.7

18 -18 3 1281.63 90.00 8400.0 84.7 0.0 0.0 21.4 106.1 118.0
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ANALYSIS FOR UBSE 28 AT (75345.00, 0.00)

	7.7		,	•	. / :-								
F		AE XG MF UN			PFN	E BP AN SD EB	S H I E L D I N	ATTENUATION	P E R A T I O N	E.P.NN ED.TB	S U B ET PO NT DA BL		
			LAGNESTIC	FOP 23	AIRPORT	AVG	1987	SAM	3 D& 8 D	MAXGN	FAR 8D	ATA 3D	6-3 <u>D</u> EG
1	2	5	6202 <u>•16</u>	90.00	8330.0	79.9	Ü.0	0.0	15.9	9 5. 8	95•8		
2	-20	1	70595.00	0.00	3660.0	31.7	3.0	15.0	15.9	29.6	95 • 8	•	
٠.	6	5	6880.27	90_00	9600.0	79.1	0.0	0.0	21.1	100.2	101.6		
4	-1,	1	69425.00	0.00	5411.0	44.3	3.0	15.0	21.1	47.4	101.6		
•	2	5	3814.46	90.00	8060. 0	89.5	0.0	0.0	24.1	113,6] 113.8	B727	SAM
4	-,:	1	69545.00	0.00	4330.0	39.1	3.0	15.0	24.1	45.2	113.8		
. 1	3	5	3385.63	90.00	12451.7	97.1	0.0	0.0	0.8	97.9	114.0		
.2	-3	1	68375.00	0.00	5100a U	37.7	3.0	15.0	0.8	_ 20.5	114.0		
cj	4	5	3385,63	90.00	12451.7	91.0	0.0	<u>0.</u> 0	17.3	108.3	115.0		
10	-4	1	68375,00	0,00	5100.0	34.8	3.0	15.0	17.3	34.2	115.0		
13	15	5	3385.63	90.00	12451.7	92.7	0.0	0.0	17.4	110.1	116.2		

(b) Page 2.

Figure A-65.- Continued.

12 -15	1 68375.00	0.00 5208.0	0 49.9 3.0 15.0	17.4 49.3	116.2
13 ?	5 3368,73	90.00 25800.0	0 84 <u>.</u> 8 0 ₂ 0 0.0	25.9 110.7	117.3 DC/O
14 -?	1 68845,00	U,00 12100.0	0 33.6 3.0 15.0	25.9 41.6	117.3
15 L	53273.52	90.00 2800.0	0 87.6 0.0 0.0	21.6 109.2	117.9
1/2 -1	1 67545.00	0.00 2281.0	0 38.0 3.0 15.0	21.6 41.6	117.9
17 13	6 5623.14	90.00 31600.	0 80.6 0.0 <u>0.0</u>	21.4 102.0	118.0
18 -18	1 68845.00	0.30 12100.	0 31.8 3.0 15.0	21.4 35.3	118-0

(c) Page 3.

Figure A-65. - Concluded.

A MS	AMA	l. Y S	15 F	OR CE	SERVE	ER AT (-18251.	.00•		0.00)				
Discrisio for 23 ARPT AVG SAM 3D REN 8D 1987 MAXGM FAR 8D ATA 3D 6-3DEG 1 3 1 18351.00 0.00 15200.0 78.4 3.0 10.0 0.8 66.2 66.2 2 -3 3 1271.23 \$0.00 2500.0 101.2 0.0 0.0 0.8 102.0 102.0 3 4 1 18351.00 0.00 15200.0 77.3 3.0 10.0 17.3 81.6 102.0 4 -4 3 1271.23 90.00 2500.0 95.7 0.0 0.0 17.3 103.0 105.5 5 15 1 18351.00 0.00 15200.0 79.7 3.0 10.0 17.4 84.1 105.6 5 -15 3 1271.23 90.00 2600.0 92.6 0.0 0.0 17.4 109.9 111.3 7 2 1 19351.00 0.00 35300.0 75.5 3.0 10.0 25.9 88.4 111.3 3 -2 3 1273.85 90.00 8400.0 86.1 0.0 0.0 25.9 112.0 114.7 DCIO 9 1 1 18351.00 0.00 3355.0 72.7 3.0 10.0 21.6 81.3 114.7 10 -1 3 1051.50 90.00 8400.0 81.2 3.0 10.0 21.6 81.3 114.7 11 14 1 13351.00 0.00 43250.0 81.2 3.0 10.0 21.4 89.6 116.4 12 -18 3 1325.85 90.00 8400.0 84.3 0.0 0.0 21.4 105.7 116.7 13 10 1 15351.00 0.00 12900.0 72.0 3.0 10.0 24.1 84.0 116.7	CB LM LU	R r pt	AE XG TM ME					AN SD	D 1 N	T E N U A T	P E P A T T T N	P NN ED	U B FT PO NT DA		
1 3 1 18351.00 0.00 15200.0 78.4 3.0 10.0 0.8 66.2 66.2 2 -7 3 1271.23 \$C.00 2500.0 101.2 0.0 0.0 0.8 102.0 102.0 3 4 1 18251.00 0.00 15200.0 77.3 3.0 10.0 17.3 81.6 102.0 4 -4 7 1271.25 2C.00 2500.0 95.7 0.0 0.0 17.3 103.0 105.5 5 15 1 18351.00 0.00 15200.0 79.7 3.0 10.0 17.4 84.1 105.6 6 -15 3 1271.27 9C.00 2600.0 92.6 0.0 0.0 17.4 103.9 111.3 7 2 1 19351.00 0.00 35300.0 75.5 3.0 10.0 25.9 88.4 111.3 9 -2 3 1273.85 9C.00 8400.0 86.1 0.0 0.0 25.9 112.0 114.7 DC/O 7 1 1 18351.00 0.00 3355.0 72.7 3.0 10.0 21.6 81.3 114.7 10 -1 7 1051.50 9C.00 1615.0 89.8 0.0 0.0 21.6 111.4 116.3 12747 11 14 1 13351.00 0.00 43250.0 81.2 3.0 10.0 21.4 89.6 116.4 12 -18 3 1325.85 9C.00 8400.0 84.3 0.0 0.0 21.4 105.7 116.7 13 17 1 15351.00 0.00 12900.0 72.0 3.0 10.0 24.1 84.0 116.7	. TR	TE		TACNI	H [STIC									ATA 3D	6-3DEG
3 4 1 18351.00 0.00 15200.0 77.3 3.0 10.0 17.3 81.6 102.0 4 -4 3 1271.23 90.00 2500.0 95.7 0.0 0.0 17.3 103.0 105.5 5 15 1 18351.00 0.00 15200.0 79.7 3.0 10.0 17.4 84.1 105.6 6 -15 3 1271.25 90.00 2600.0 92.6 0.0 0.0 17.4 109.9 111.3 7 2 1 19351.00 0.00 35300.0 75.5 3.0 10.0 25.9 88.4 111.3 3 -2 3 1273.85 90.00 8400.0 86.1 0.0 0.0 25.9 112.0 114.7 DC10 7 1 1 18351.00 0.00 3355.0 72.7 3.0 10.0 21.6 81.3 114.7 10 -1 3 1051.50 90.00 1615.0 89.8 0.0 0.0 21.6 111.4 116.3 B747 11 14 1 13351.00 0.00 43250.0 81.2 3.0 10.0 21.4 89.6 116.4 12 -18 3 1325.85 90.00 8400.0 84.3 0.0 0.0 21.4 105.7 116.7 13 10 1 15351.00 0.00 12900.0 72.9 3.0 10.0 24.1 84.0 116.7	ì	3													
4 7 1271.23	2	- 5	3	1.2	71.23	s c. nn	2500.0	101.2	0.0	n. 0	0.8	102.0	102.0		
5 15 1 18351.00 0.00 15200.0 79.7 3.0 10.0 17.4 84.1 105.6 6 -15 3 1271.25 9C.00 2600.0 92.6 0.0 0.0 17.4 109.9 111.3 7 2 1 19351.00 0.00 35300.0 75.5 3.0 10.0 25.9 88.4 111.3 3 -2 3 1213.85 9C.00 8400.0 86.1 0.0 0.0 25.9 112.0 114.7 DC10 9 1 1 18351.00 0.00 3355.0 72.7 3.0 10.0 21.6 81.3 114.7 10 -1 3 1051.50 9C.00 1615.0 89.8 0.0 0.0 21.6 111.4 116.5 B747 11 14 1 13351.01 0.00 43250.0 81.2 3.0 10.0 21.4 89.6 116.4 12 -18 3 1325.85 9C.00 8400.0 84.3 0.0 0.0 21.4 105.7 116.7 13 10 1 15351.00 0.00 12900.0 72.9 3.0 10.0 24.1 84.0 116.7 14 -10 3 1323.85 9C.00 1800.0 87.2 0.0 0.0 24.1 111.3 117.8	3	4	1	183	51 . 00	0.39	15200.0	77.3	3.0	10.0	17.3	81.6	102.0		
6-15 3 1271.27 90.00 2600.0 92.6 0.0 0.0 17.4 109.9 111.3 7 2 1 19351.00 0.00 35300.0 75.5 3.0 10.0 25.9 88.4 111.3 3 -2 3 1273.85 90.00 8400.0 86.1 0.0 0.0 25.9 112.0 114.7 DCIO 7 1 1 18351.00 0.00 3355.0 72.7 3.0 10.0 21.6 81.3 114.7 10 -1 3 1051.50 90.00 1615.0 89.8 0.0 0.0 21.6 111.4 116.3 12747 11 14 1 13351.00 0.00 43250.0 81.2 3.0 10.0 21.4 89.6 116.4 12 -18 3 1323.85 90.00 8400.0 84.3 0.0 0.0 21.4 105.7 116.7 13 10 1 18351.00 0.00 12900.0 72.9 3.0 10.0 24.1 84.0 116.7 14 -10 3 1323.85 90.00 1800.0 87.2 0.0 0.0 24.1 111.3 117.8	• •	-4	. i	1, 2	71.23	°c.00	2500.C	95.7	0.0	0.0	17.3	103.0	105.5	i de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della comp	
7 2 1 19351.00	5	15	1	183	51.00	n. 00	15200.0	79.7	3.0	10.0	17.4	84.1	105.6		eng same
3 -2 3 1313.85 90.00 8400.0 86.1 0.0 0.0 25.9 112.0 114.7 DC10 1 1 18351.00 0.00 3355.0 72.7 3.0 10.0 21.6 81.3 114.7 10 -1 3 1051.50 90.00 1615.0 89.8 0.0 0.0 21.6 111.4 116.3 B747 11 13 1 13351.01 0.00 43250.0 81.2 3.0 10.0 21.4 89.6 116.4 12 -18 3 1325.85 90.00 8400.0 84.3 0.0 0.0 21.4 105.7 116.7 13 10 1 18351.00 0.00 12900.0 72.9 3.0 10.0 24.1 84.0 116.7 14 -10 3 1323.85 90.00 1800.0 87.2 0.0 0.0 24.1 111.3 117.8	5	-15	3	12	71.25	90.00	2600.0	92.6	0.0	0.0	17.4	109.9	111.3		-
1 1 18351.00 0.00 3355.0 72.7 3.0 10.0 21.6 81.3 114.7 10 -1 3 1051.50 cc.00 1615.0 89.8 0.0 0.0 21.6 111.4 116.3 B747 11 14 1 13351.00 0.00 43250.0 81.2 3.0 10.0 21.4 89.6 116.4 12 -18 3 1325.85 90.00 8400.0 84.3 0.0 0.0 21.4 105.7 116.7 13 10 1 18351.00 0.00 12900.0 72.9 3.0 10.0 24.1 84.0 116.7 14 -10 3 1323.85 cc.00 1800.0 87.2 0.0 0.0 24.1 111.3 117.8	7	2	1	193	51.00	ი. ში	35300.0	75.5	3.0	10.0	25.9	88.4	111.3		
10 -1 3 1051.50	, j. 3,	- 2	3	13	85. 3	9 C • 00	8400.0	86.1	0.0	0.0	25.9	112.0	114.7	Delo	
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13 17 1 15351.00 0.00 12900.0 72.0 3.0 10.0 24.1 84.0 116.7 14 -19 3 1323.85 90.00 1800.0 87.2 0.0 0.0 24.1 111.3 117.8	11	23	1	133	51.03	0.00	43250.0	81.2	3.0	10.0	21.4	89.6	116.4		
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그렇게 보여들이들은 그 이번 이러는 생각이 하시다. 이번 등 생활 이름이는 통합	13	10	1	153	51.00	ა. იი	12900.0	72.0	3.0	10.0	24.1	84.0	116.7		
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	15	1.2	1	183	51.00	0.01	12750.0	69.3	3.0	10.0	21.1	77.4	117.8		

Figure A-66. - 23-Airport, 1987 - cutback JT8D takeoff, standard JT3D takeoff, two-segment approach, SAM JT3D, RFN JT8D.

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    1e -12 3
    1323.35
    90.00
    2800.0
    82.0 0.0
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    17 19 1 19251.00
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    57.3 3.0 10.0
    15.9 60.2 118.0

    18 -19 3 1218.56
    90.00 2100.0
    83.3 0.0 0.0
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ANALYSIS FOR DESERVER AT (69106.00,		0.00)						
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		D	TAGNOSTI	C FOR 23	ARPT AVE	SAM	3D RE	N BD	1987 M	AXGA	FAR 80	ATA 30	6-3 DEG
1	3	5	3201.9	8 90.00	12600.0	98.0	0.0	0.0	0.8	98.8	98.8		
Z	-3	1	62136.0	0.07	5100.0	35.5	3.0	15.0	0.6	22.3	98.8		e e e e e e e e e e e e e e e e e e e
. .	4	5	3291.9	8 90.00	12600.0	91.9	0.0	0.0	17.3	109.2	109.6	aproximate and	-
. 4	- 4	ī	62136.0	ວ ຕຸວດ	5100.0	36.5	3.0	15.0	17.3	35.8	109.6		
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0	-15	1	62136.0	0 (.00	5208.0	51.1	3.0	15.0	17.4	50.5	113.5	-	
7	ĵ,	4	3075.8	s sc.nō	26501.4	8 6. 6	0.0	0.0	25.9	ī ī,2.5	116.0	DC 10	We .
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9	1	4	3150.1	3 90.00	2800.0	88.4	0.0	0.0	21.6	110.0	117.0		
ΙO	-1	1	61306.0	ი ი.იი	2281.0	35.6	3.0	15.0	21.6	43.2	117.0		
11	18	6	5104.3	4 9C.00	31600.0	81.7	0 • C	0.0	21.4	103.1	117.2		
(b) Page 2.													

Figure A-66. - Continued.

12	-19	1	62006.70	c. on	12100.0	33.3	3.0	15.7	21.4	36.7	117.2
13	; 1	5	3729.26	sc.00	8230.0	R6.5	၇.၀	1.1	24.1	1:0.6	118.1
14	-10	1	6 33 Co • 00	c . nn	4330.0	54.2	3.0	15.0	24.1	60.3	118.1
15	: 2	5	51-3.13	7C.00	7600 . 0	73∙0	0.0	0.0	?1.1	94.3	118.1
16	-1,2	1	63176.00	C.00	5370.0	41.8	3.0	15.0	21.1	44.9	118.1
17	19	5	19/1.47	sc.00	8390.7	72.2	C • C	7.0	15.9	88.1	113.1
1 p	-19	1	6+776.00	0.00	3660.0	25.R	3.0	15.0	15.9	23.7	118.1

(c) Page 3.
Figure A-66.- Concluded.

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